

OLIGODEOXYNUCLEOTIDE Xol26

5'-CCCGGGAAGCTT **CCTTAGG** CTTAAAGAAAGTGGTGCTGGGCAAAAAGGG-3'

prepro-HSA ← MstII → V1 domain of CD4 receptor

OLIGODEOXYNUCLEOTIDE X₀₁₂₇

SmaI HindIII
 5'-CCCGGGAAGCTTTTAGAAAGCTAGCACACGATGTCTAT-3'
 ↓
 stop codon
 → V2 domain of CD4 receptor

Figure 1

MstII
CCTTAGGCTTAAAGAAAGTGGTGTGGGCAAAAAGGGGATACAGTGGAAGTACCTGTACAGCTTCCCAGAAGA
 01 11 21 31 41 51 61 71

 AGAGCATACAATTCCACTGGAAAACTCCAACCAGATAAAGATTCTGGGAAATCAGGGCTCCTTCTTAAGTAAAG
 76 86 96 106 116 126 136 146

 GTCCATCCAAGCTGAATGATCGCGCTGACTCAAGAAGAAGCCTTTGGGACCAAGGAAACTTCCCCCTGATCATCA
 151 161 171 181 191 201 211 221

 AGAATCTTAAGATAGAAGACTCAGATACTTACATCTGTGAAGTGGAGGACCAGAAGGAGGAGGTGCAATTGCTAG
 226 236 246 256 266 276 286 296

 TGTTCGGATTGACTGCCAACTCTGACACCCACCTGCTTCAGGGGCAGAGCCTGACCCTGACCTTGGAGAGCCCCC
 301 311 321 331 341 351 361 371

 CTGGTAGTAGCCCCCTCAGTGCAATGTAGGAGTCCAAGGGGTAAAAACATACAGGGGGGAAGACCCTCTCCGTGT
 376 386 396 406 416 426 436 446

 CTCAGCTGGAGCTCCAGGATAGTGGCACCTGGACATGCACTGTCTTGCAGAACCAGAAGAAGGTGGAGTTCAAAA
 451 461 471 481 491 501 511 521

HindIII SmaI
TAGACATCGTGGTGCTAGCTTTCTAAAAGCTTCCCGGG
 526 536 546 556

Figure 2

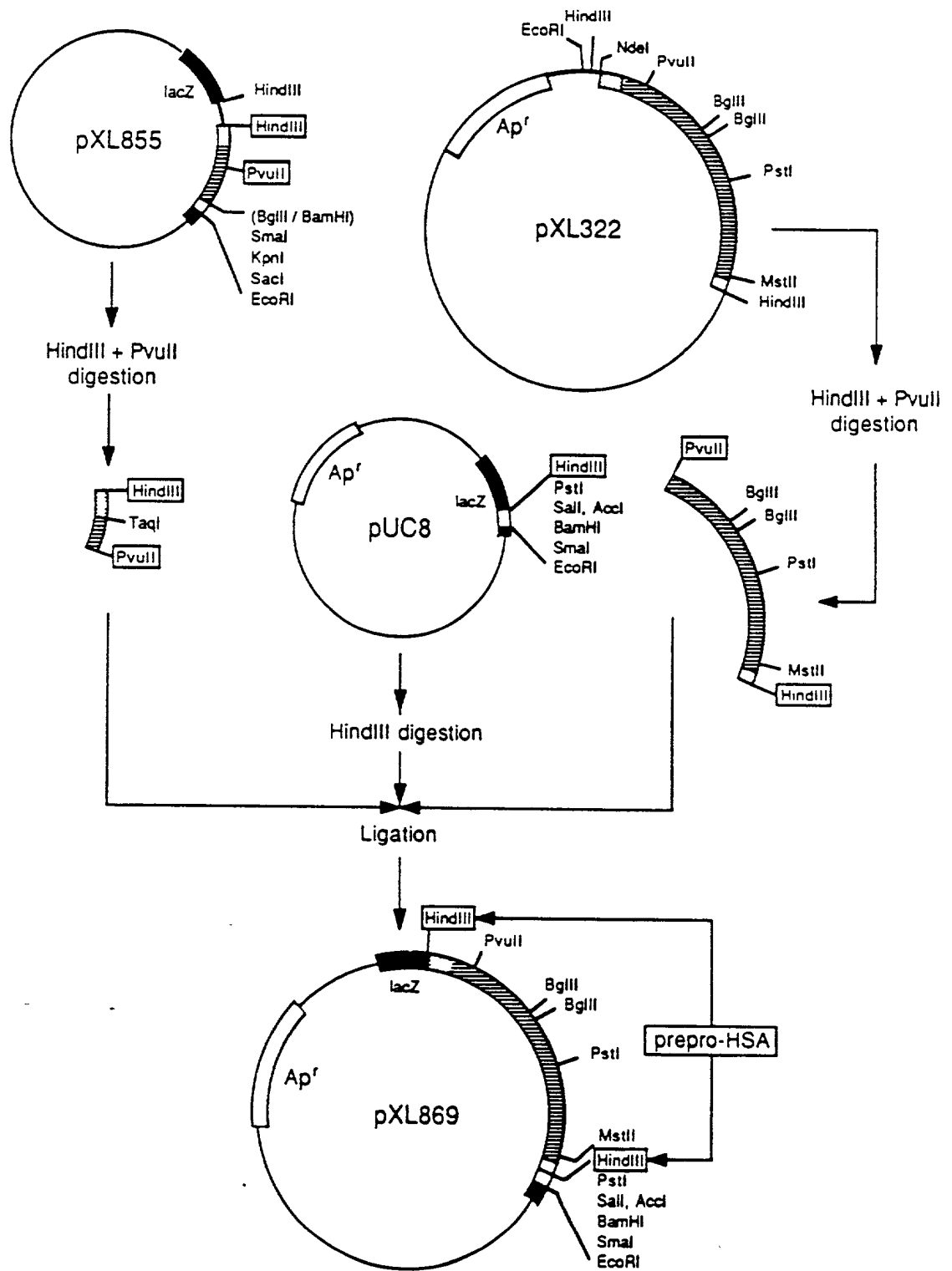


Figure 3

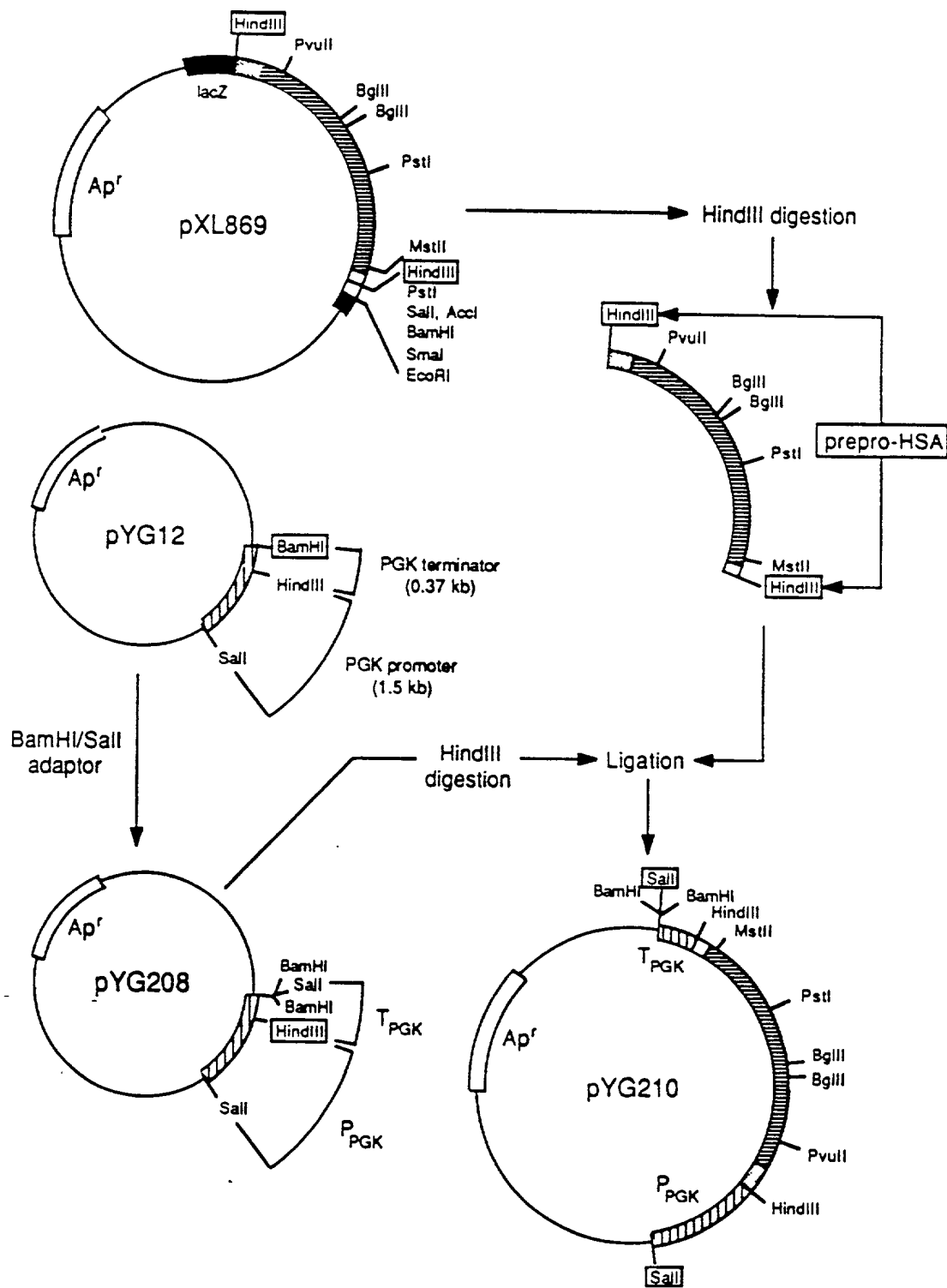


Figure 4

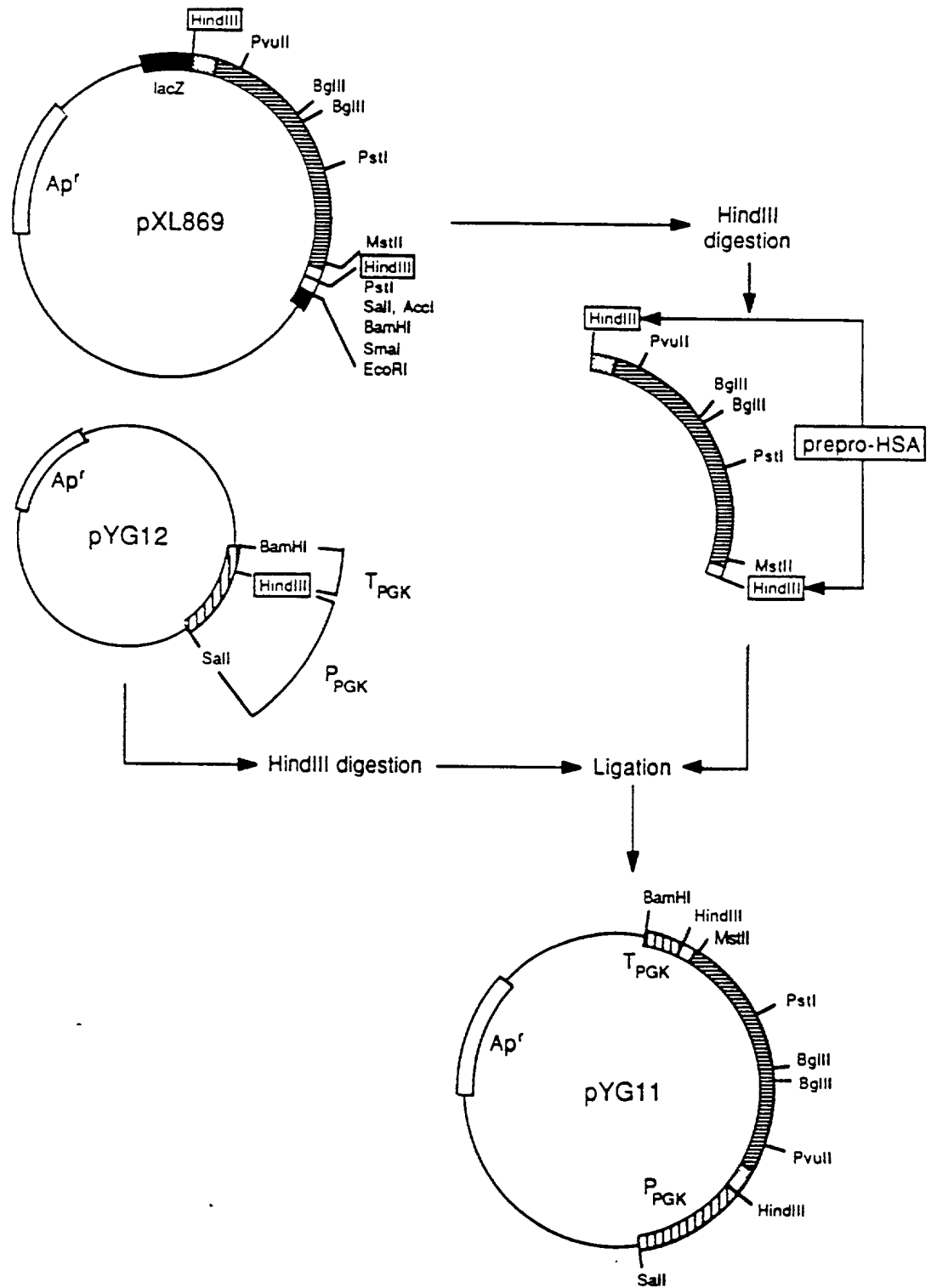


Figure 5

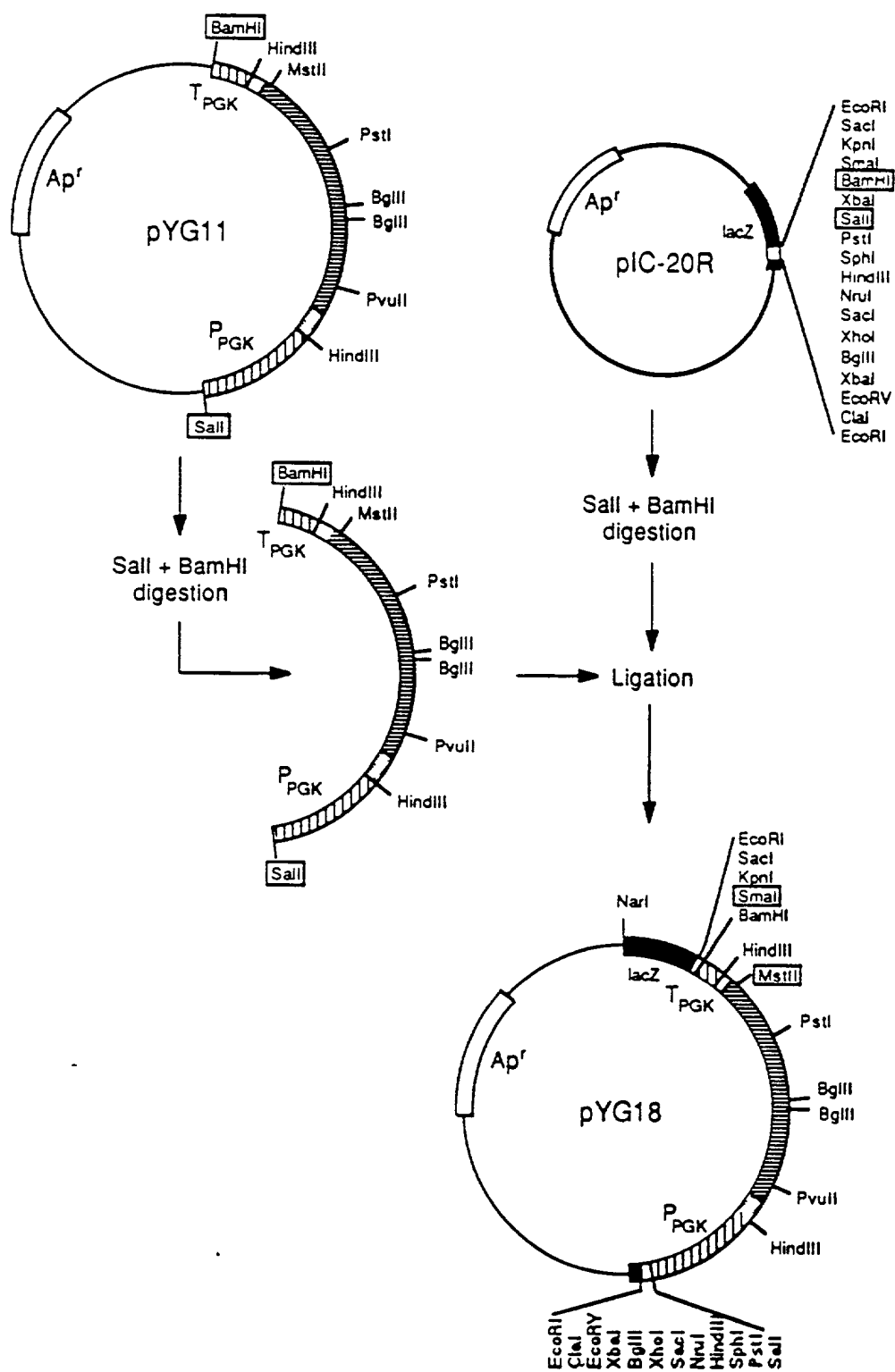


Figure 6

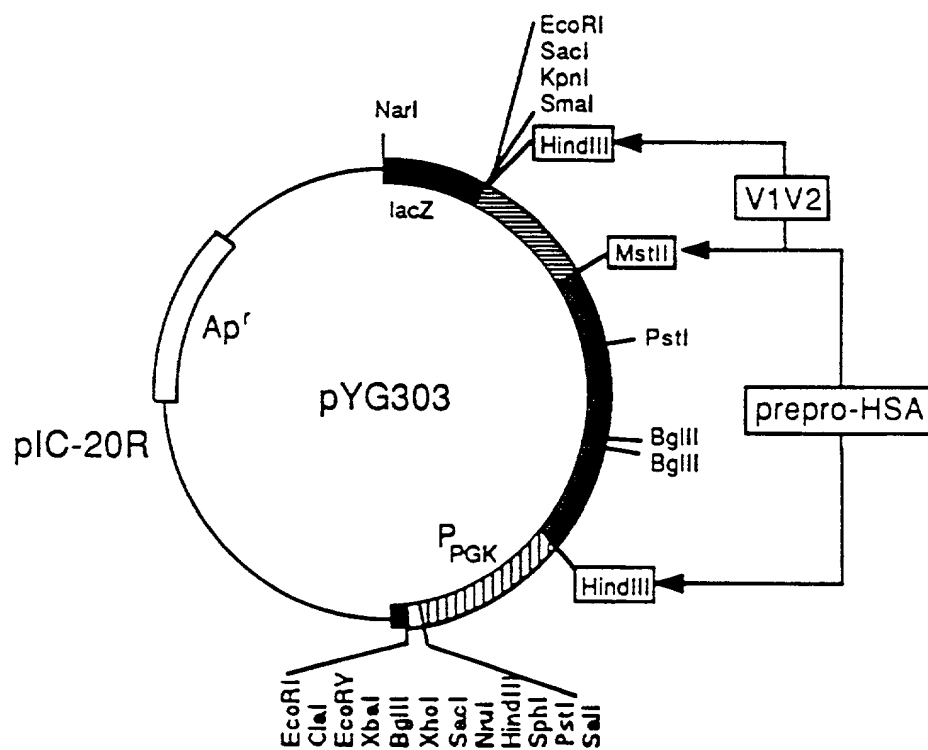


Figure 7

MetLysTrpValThrPheIleSerLeuLeuPheLeuPheSerSerAlaTyrSerArgGlyValPheArg
 AAGCTTATGAAGTGGGTAACTTTATTTCCTTCTTTTCTCTTTAGCTCGGCTTATCCAGGGGTGTGTTTCGT
 1 11 21 31 41 51 61 71
 ArgAspAlaHisLysSerGluValAlaHisArgPheLysAspLeuGlyGluGluAsnPheLysAlaLeuValLeu
 CGAGATGCACACAAGAGTGAGGTTGCTCATCGGTTTAAAGATTGGGAGAAGAAAATTTCAAAGCCTTGTTGTTG
 76 86 96 106 116 126 136 146
 IleAlaPheAlaGlnTyrLeuGlnGlnCysProPheGluAspHisValLysLeuValAsnGluValThrGluPhe
 ATTGCCTTTGCTCAGTATCTTCAGCAGTGTCCATTGAAGATCATGTAAATAGTGAATGAAGTAACTGAATTT
 151 161 171 181 191 201 211 221
 AlaLysThrCysValAlaAspGluSerAlaGluAsnCysAspLysSerLeuHisThrLeuPheGlyAspLysLeu
 GCAAAAACATGTGTTGCTGATGAGTCAGCTGAAAATTGTGACAAATCACTTCATACCCTTTTTGGAGACAAATTA
 226 236 246 256 266 276 286 296
 CysThrValAlaThrLeuArgGluThrTyrGlyGluMetAlaAspCysCysAlaLysGlnGluProGluArgAsn
 TGCACAGTTGCAACTCTTCGTGAAACCTATGGTGAAATGGCTGACTGCTGTGCAAAACAAGAACCTGAGAGAAAT
 301 311 321 331 341 351 361 371
 GluCysPheLeuGlnHisLysAspAspAsnProAsnLeuProArgLeuValArgProGluValAspValMetCys
 GAATGCTTCTTGCAACACAAAGATGACAACCCAAACCTCCCCGATTGGTGAGACCAGAGGTTGATGTGATGTGC
 376 386 396 406 416 426 436 446
 ThrAlaPheHisAspAsnGluGluThrPheLeuLysLysTyrLeuTyrGluIleAlaArgArgHisProTyrPhe
 ACTGCTTTTCATGACAATGAAGAGACATTTTGAATAATACTTATATGAAATTGCCAGAAGACATCCTTACTTT
 451 461 471 481 491 501 511 521
 TyrAlaProGluLeuLeuPhePheAlaLysArgTyrLysAlaAlaPheThrGluCysCysGlnAlaAlaAspLys
 TATGCCCCGGAACCTCTTTCTTTGCTAAAAGGTATAAAGCTGCTTTTACAGAATGTTGCCAAGCTGCTGATAAA
 526 536 546 556 566 576 586 596
 AlaAlaCysLeuLeuProLysLeuAspGluLeuArgAspGluGlyLysAlaSerSerAlaLysGlnArgLeuLys
 GCTGCCTGCCTGTTGCCAAAGCTCGATGAACCTCGGGATGAAGGGAAGGCTTCGCTGCCAACAGAGACTCAAG
 601 611 621 631 641 651 661 671
 CysAlaSerLeuGlnLysPheGlyGluArgAlaPheLysAlaTrpAlaValAlaArgLeuSerGlnArgPhePro
 TGTGCCAGTCTCCAAAATTTGGAGAAAGAGCTTTCAAAGCATGGGCAGTAGCTCGCTGAGCCAGAGATTTCCC
 676 686 696 706 716 726 736 746
 LysAlaGluPheAlaGluValSerLysLeuValThrAspLeuThrLysValHisThrGluCysCysHisGlyAsp
 AAAGCTGAGTTTGAGAAGTTTCCAAGTTAGTGACAGATCTTACCAAAGTCCACACGGAATGCTGCCATGGAGAT
 751 761 771 781 791 801 811 821
 LeuLeuGluCysAlaAspAspArgAlaAspLeuAlaLysTyrIleCysGluAsnGlnAspSerIleSerSerLys
 CTGCTTGAATGTGCTGATGACAGGGCGGACCTTGCCAAGTATATCTGTGAAAATCAAGATTCGATCTCCAGTAAA
 826 836 846 856 866 876 886 896
 LeuLysGluCysCysGluLysProLeuLeuGluLysSerHisCysIleAlaGluValGluAsnAspGluMetPro
 CTGAAGGAATGCTGTGAAAAACCTCTGTTGGAAAAATCCCACTGCATTGCCAAGTGGAAAAATGATGAGATGCCT
 901 911 921 931 941 951 961 971
 AlaAspLeuProSerLeuAlaAlaAspPheValGluSerLysAspValCysLysAsnTyrAlaGluAlaLysAsp
 GCTGACTTGCCTTCATTAGCTGCTGATTTTGTGAAAGTAAGGATGTTTGCAAAAATATGCTGAGGCAAGGAT
 976 986 996 1006 1016 1026 1036 1046

Figure 8A

ValPheLeuGlyMetPheLeuTyrGluTyrAlaArgArgHisProAspTyrSerValValLeuLeuLeuArgLeu
 GTCTTCCTGGGCATGTTTTGTATGAATATGCAAGAAGGCATCCTGATTACTCTGTCGTAAGTCTGCTGAGACTT
 1051 1061 1071 1081 1091 1101 1111 1121

AlaLysThrTyrGluThrThrLeuGluLysCysCysAlaAlaAlaAspProHisGluCysTyrAlaLysValPhe
 GCCAAGACATATGAAACCACTCTAGAGAAGTGTGTGCCGCTGCAGATCCTCATGAATGCTATGCCAAAGTGTTT
 1126 1136 1146 1156 1166 1176 1186 1196

AspGluPheLysProLeuValGluGluProGlnAsnLeuIleLysGlnAsnCysGluLeuPheGluGlnLeuGly
 GATGAATTTAAACCTCTTGTGGAAGAGCCTCAGAATTTAATCAAACAAATTGTGAGCTTTTTGAGCAGCTTGGG
 1201 1211 1221 1231 1241 1251 1261 1271

GluTyrLysPheGlnAsnAlaLeuLeuValArgTyrThrLysLysValProGlnValSerThrProThrLeuVal
 GAGTACAAATTCCAGAATGCGCTATTAGTTCTGTACACCAAGAAAGTACCCCAAGTGTCAACTCCAACCTCTGTA
 1276 1286 1296 1306 1316 1326 1336 1346

GluValSerArgAsnLeuGlyLysValGlySerLysCysCysLysHisProGluAlaLysArgMetProCysAla
 GAGGTCTCAAGAAACCTAGGAAAAGTGGGCAGCAATGTTGTAAACATCCTGAAGCAAAAAGAAATGCCCTGTGCA
 1351 1361 1371 1381 1391 1401 1411 1421

GluAspTyrLeuSerValValLeuAsnGlnLeuCysValLeuHisGluLysThrProValSerAspArgValThr
 GAAGACTATCTATCCGTGGTCCTGAACCAGTTATGTGTGTTGCATGAGAAAACGCCAGTAAGTGACAGAGTCACC
 1426 1436 1446 1456 1466 1476 1486 1496

LysCysCysThrGluSerLeuValAsnArgArgProCysPheSerAlaLeuGluValAspGluThrTyrValPro
 AAATGCTGCACAGAATCCTTGGTGAACAGGCGACCATGCTTTTCAGCTCTGGAAGTCGATGAAACATACGTTCCC
 1501 1511 1521 1531 1541 1551 1561 1571

LysGluPheAsnAlaGluThrPheThrPheHisAlaAspIleCysThrLeuSerGluLysGluArgGlnIleLys
 AAAGAGTTTAATGCTGAAACATTCACCTTCCATGCAGATATATGCACACTTTCTGAGAAGGAGAGACAAATCAAG
 1576 1586 1596 1606 1616 1626 1636 1646

LysGlnThrAlaLeuValGluLeuValLysHisLysProLysAlaThrLysGluGlnLeuLysAlaValMetAsp
 AAACAACTGCACCTTGTGAGCTTGTGAAACACAAGCCCAAGCAACAAAGAGCAACTGAAAGCTGTTATGGAT
 1651 1661 1671 1681 1691 1701 1711 1721

AspPheAlaAlaPheValGluLysCysCysLysAlaAspAspLysGluThrCysPheAlaGluGluGlyLysLys
 GATTTTCGAGCTTTTGTAGAGAAGTGTGCAAGGCTGACGATAAGGAGACCTGCTTTGCCGAGGGGTAAAAA
 1726 1736 1746 1756 1766 1776 1786 1796

LeuValAlaAlaSerGlnAlaAlaLeuGlyLeuLysLysValValLeuGlyLysLysGlyAspThrValGluLeu
 CTTGTTGTGCAAGTCAAGCTGCCTTAGGCTTAAAGAAAGTGGTGTGGGCAAAAAGGGGATACAGTGGAACTG
 1801 1811 1821 1831 1841 1851 1861 1871

ThrCysThrAlaSerGlnLysLysSerIleGlnPheHisTrpLysAsnSerAsnGlnIleLysIleLeuGlyAsn
 ACCTGTACAGCTTCCAGAGAAGAGCATACAATTCACCTGGAAAACTCCAACAGATAAAGATTCTGGGAAAT
 1876 1886 1896 1906 1916 1926 1936 1946

GlnGlySerPheLeuThrLysGlyProSerLysLeuAsnAspArgAlaAspSerArgArgSerLeuTrpAspGln
 CAGGGCTCCTTCTTAACATAAGGTCCATCCAAGCTGAATGATCGCGCTGACTCAAGAAGAAGCCTTTGGGACCAA
 1951 1961 1971 1981 1991 2001 2011 2021

GlyAsnPheProLeuIleIleLysAsnLeuLysIleGluAspSerAspThrTyrIleCysGluValGluAspGln
 GGAAACTTCCCCTGATCATCAAGAATCTTAAGATAGAAGACTCAGATACTTACATCTGTGAAGTGAGGACCAG
 2026 2036 2046 2056 2066 2076 2086 2096

LysGluGluValGlnLeuLeuValPheGlyLeuThrAlaAsnSerAspThrHisLeuLeuGlnGlyGlnSerLeu
 AAGGAGGAGGTGCAATTGCTAGTGTTCGATTGACTGCCAACTCTGACACCCACCTGCTTCAGGGGCAGAGCCTG
 2101 2111 2121 2131 2141 2151 2161 2171

Figure 8B

ThrLeuThrLeuGluSerProProGlySerSerProSerValGlnCysArgSerProArgGlyLysAsnIleGln
ACCCTGACCTTGGAGAGCCCCCTGGTAGTAGCCCCTCAGTGCAATGTAGGAGTCCAAGGGGTAAAAACATACAG
2176 2186 2196 2206 2216 2226 2236 2246

GlyGlyLysThrLeuSerValSerGlnLeuGluLeuGlnAspSerGlyThrTrpThrCysThrValLeuGlnAsn
GGGGGAAGACCTCTCCGTGTCTCAGCTGGAGCTCCAGGATAGTGGCACCTGGACATGCACTGTCTTGCAGAAC
2251 2261 2271 2281 2291 2301 2311 2321

GlnLysLysValGluPheLysIleAspIleValValLeuAlaPhe***
CAGAAGAAGGTGGAGTTCAAAATAGACATCGTGGTGCTAGCTTTCTAAAAGCTT
2326 2336 2346 2356 2366 2376

Figure 8C

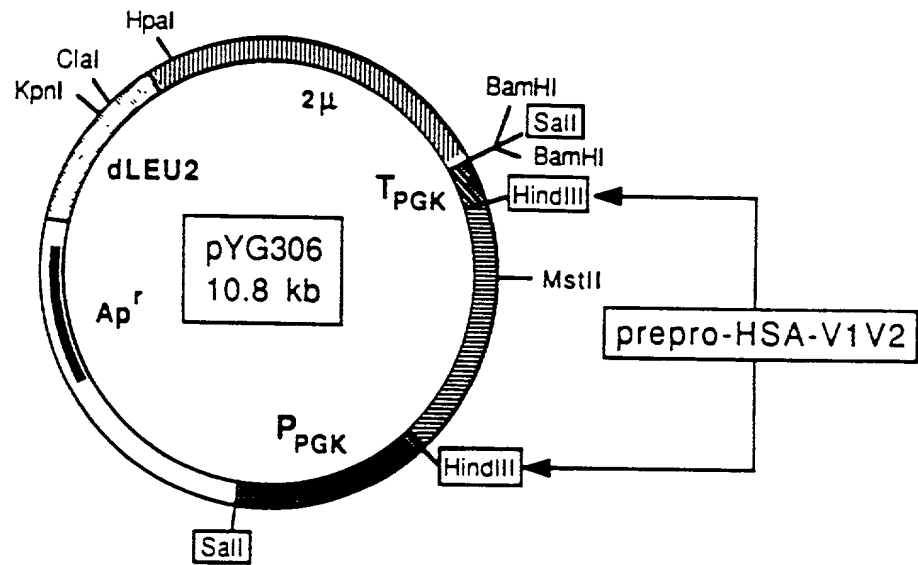


Figure 9

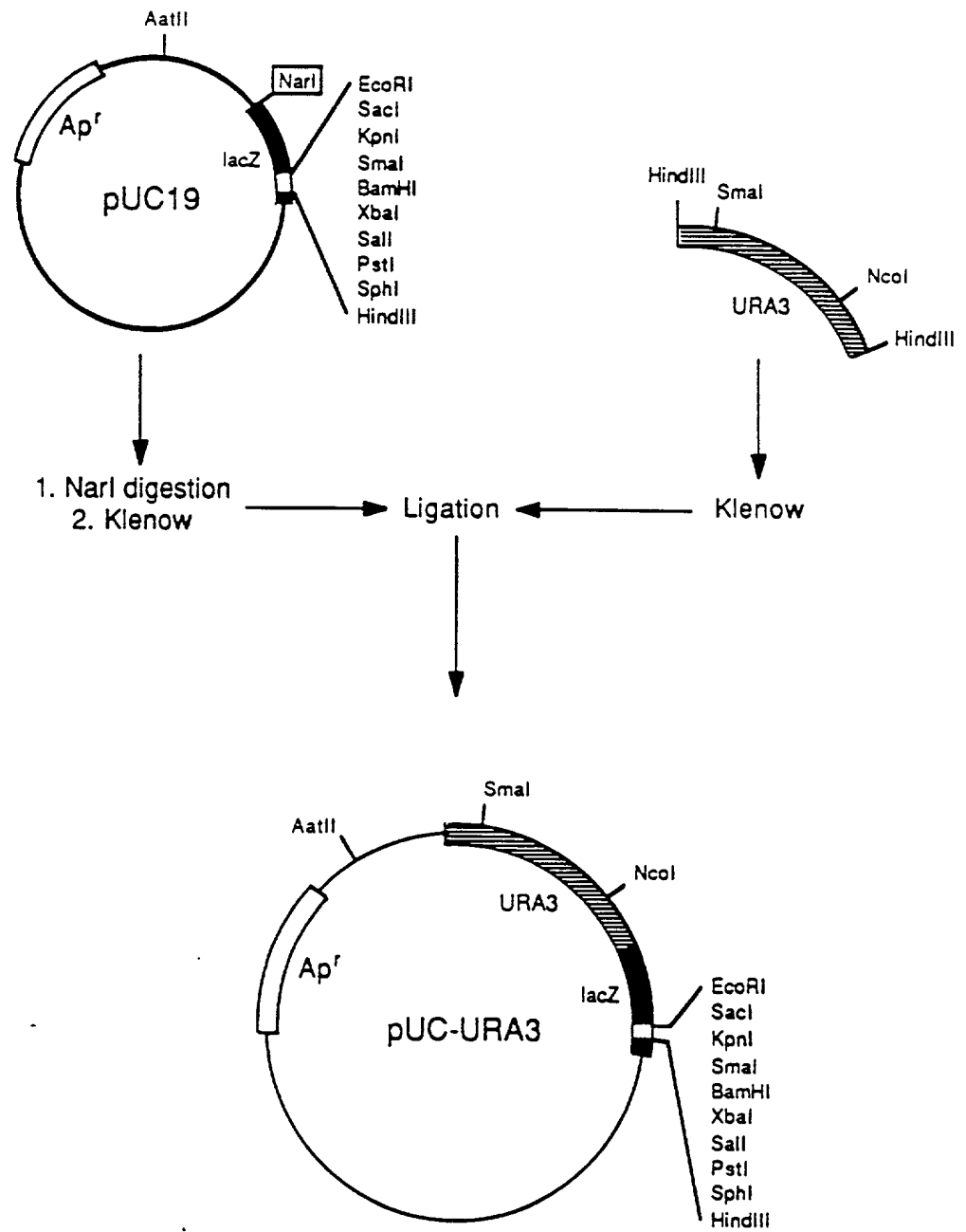


Figure 10

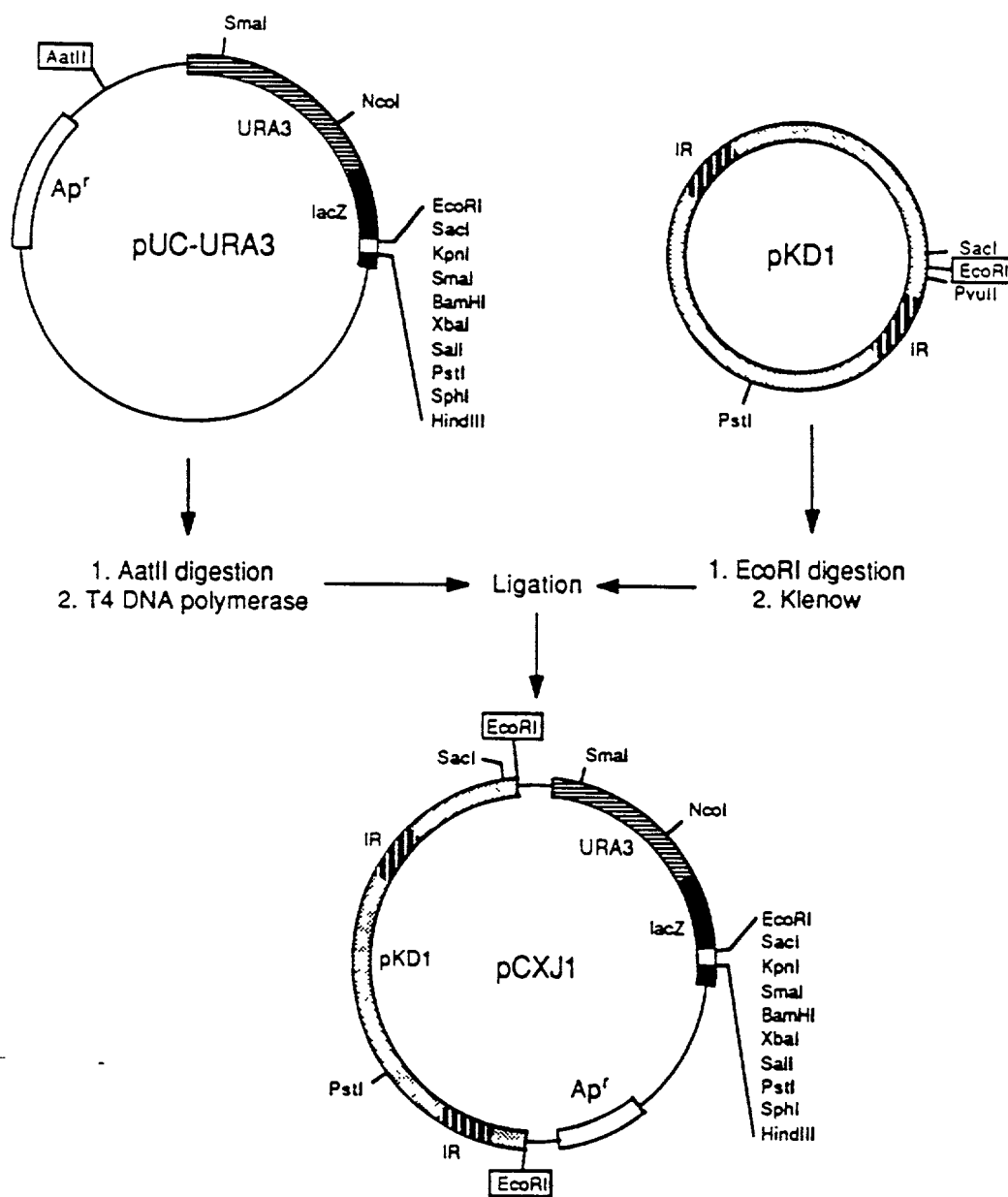


Figure 11

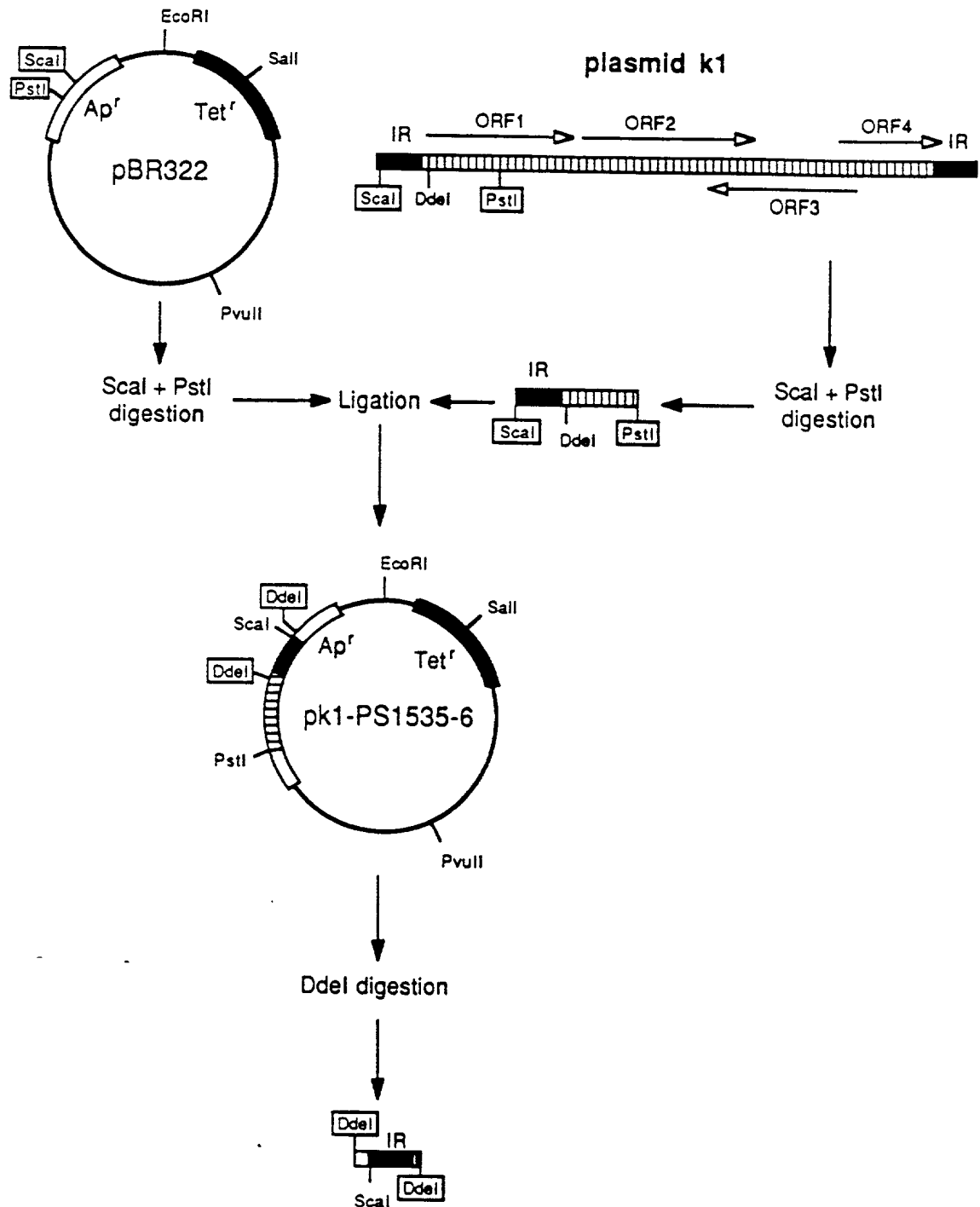


Figure 12

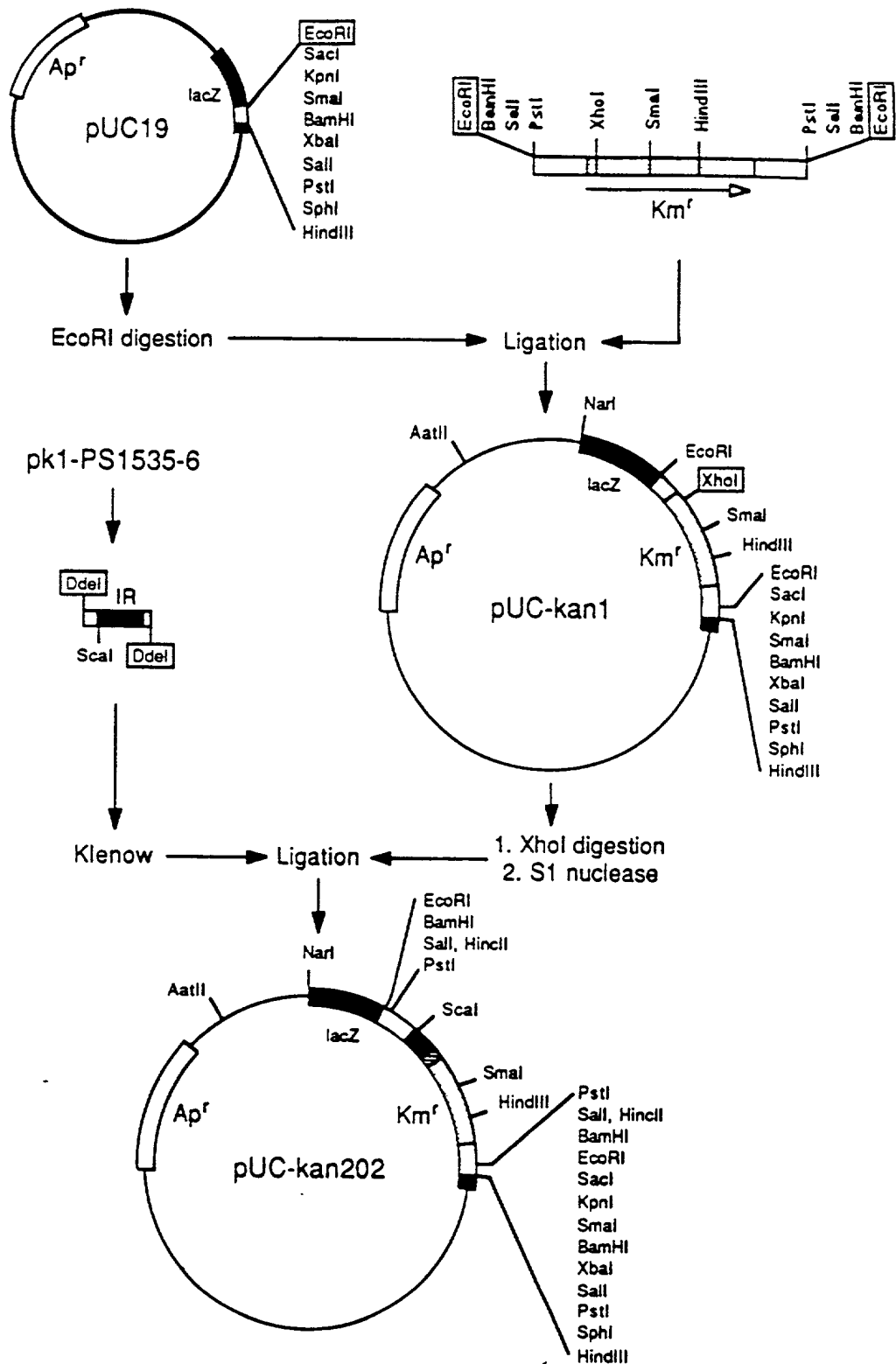
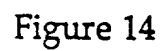


Figure 13



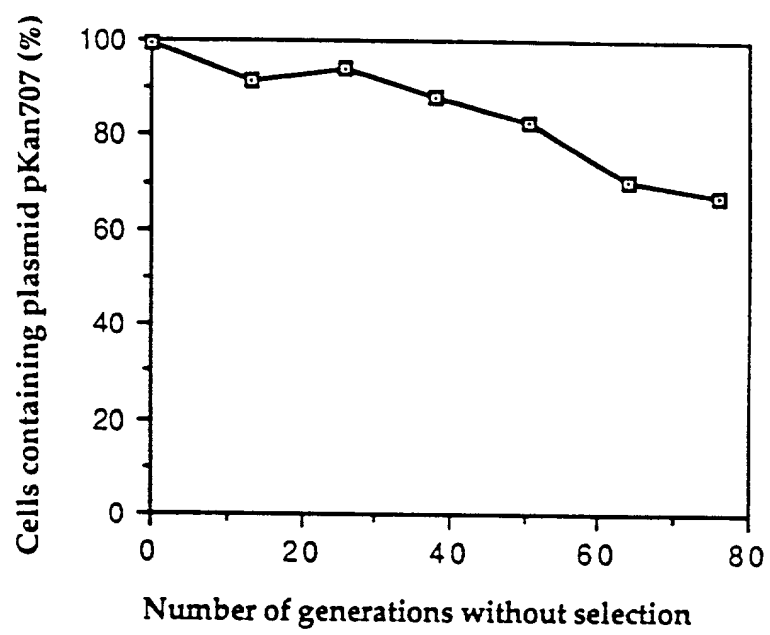


Figure 15

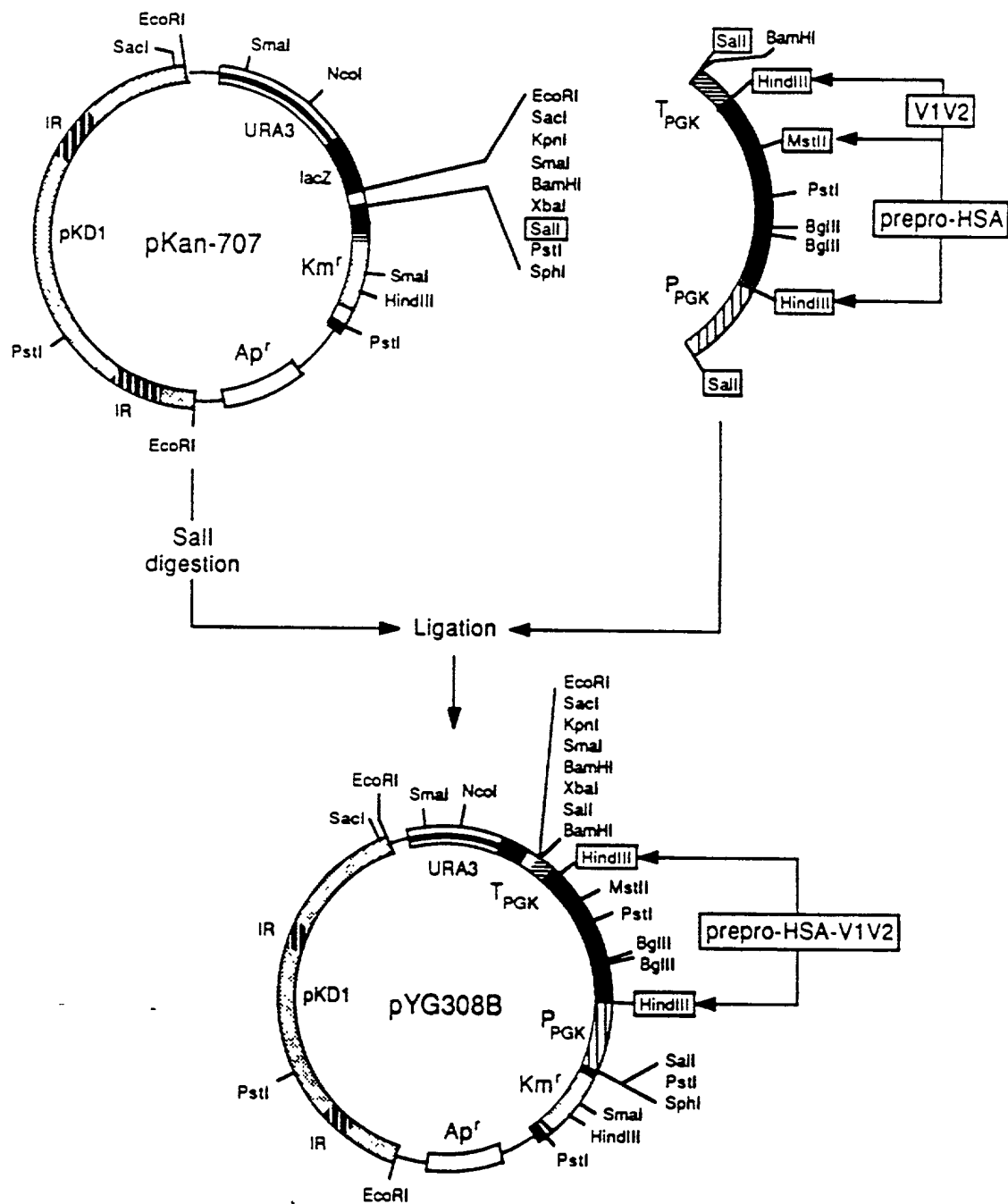


Figure 16

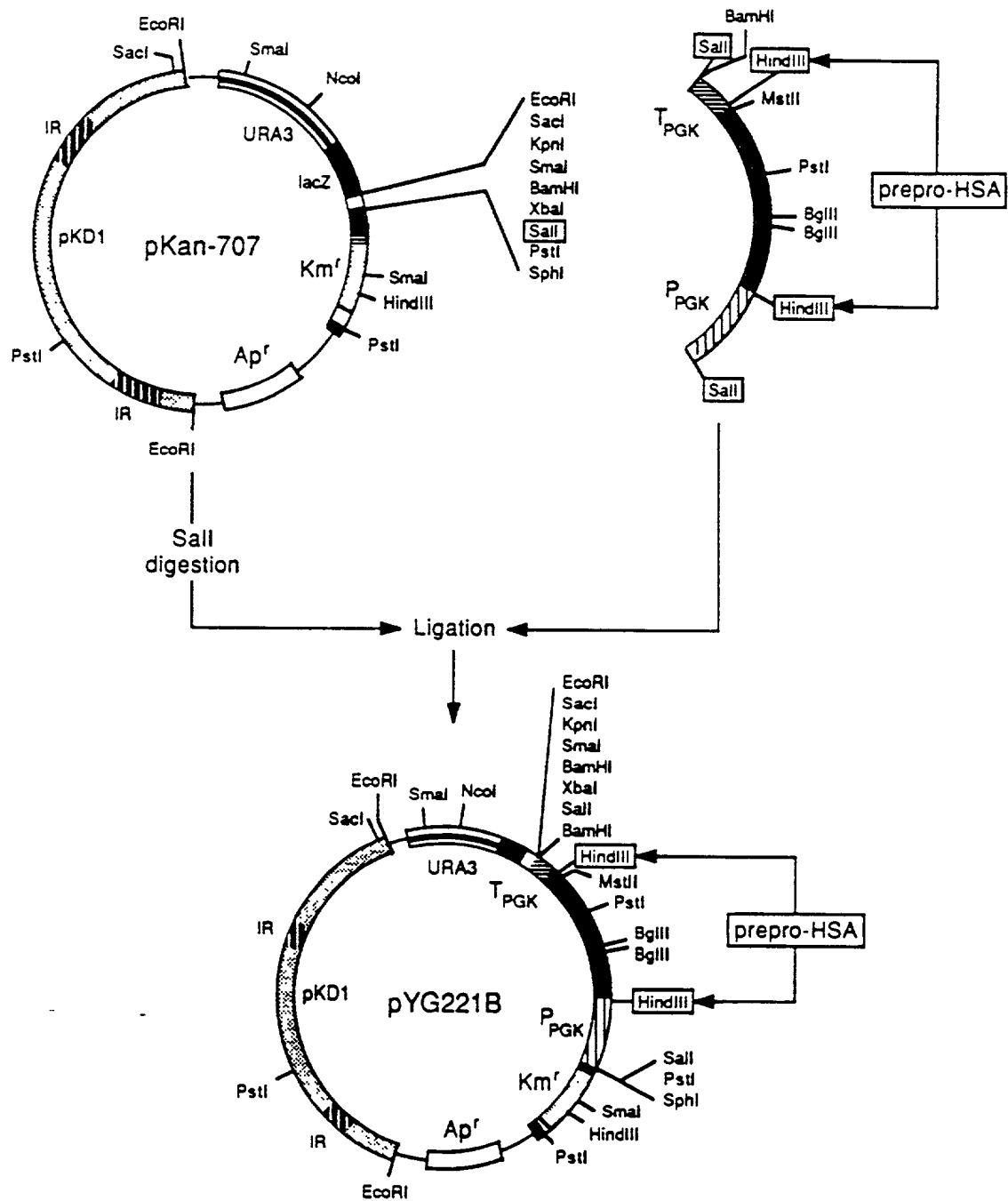
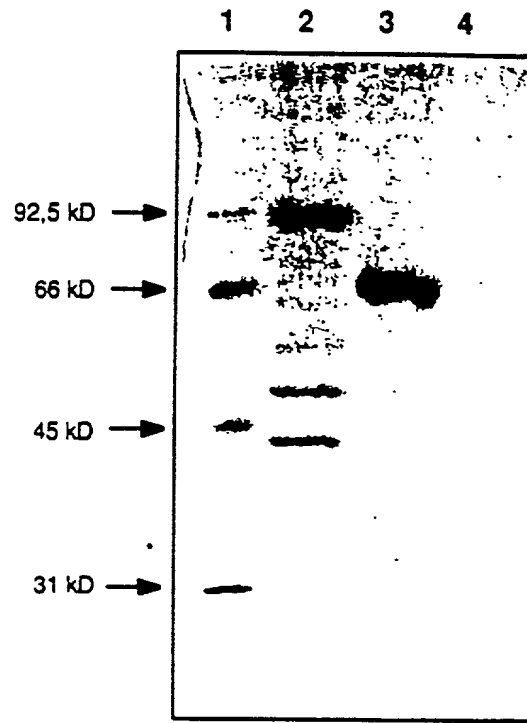
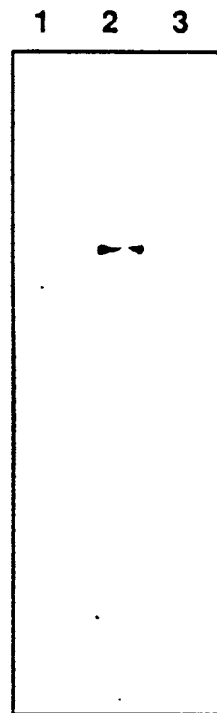


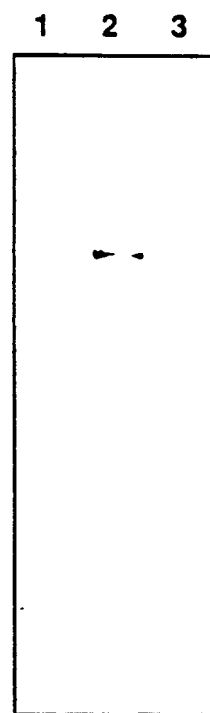
Figure 17



A



B



C

Figure 18

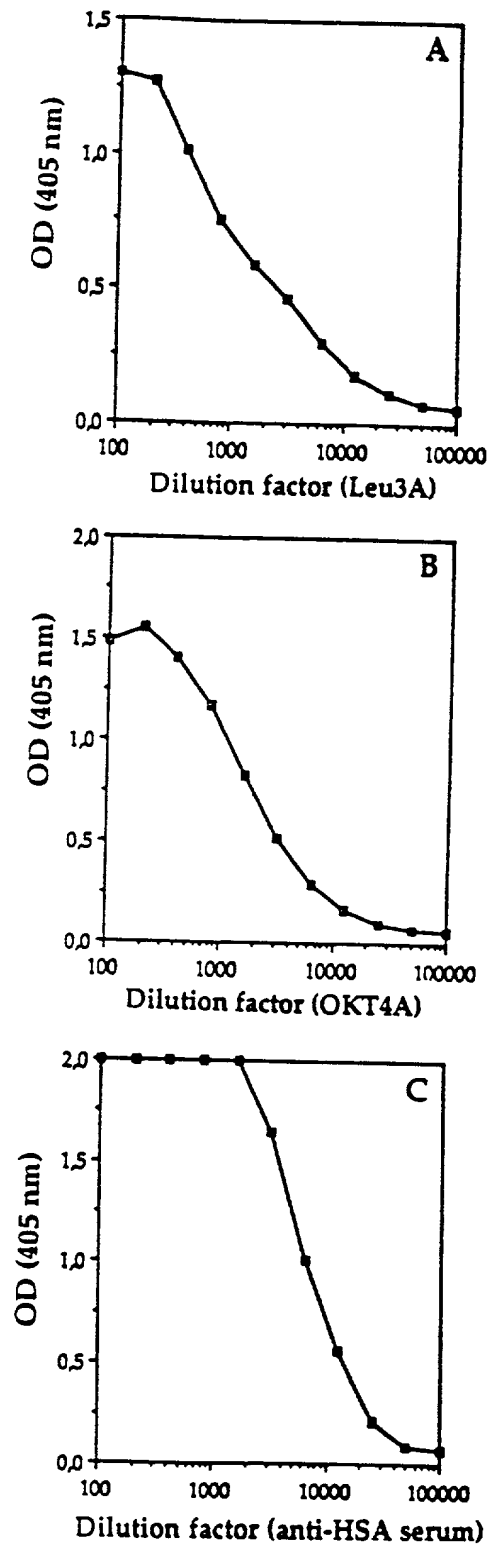


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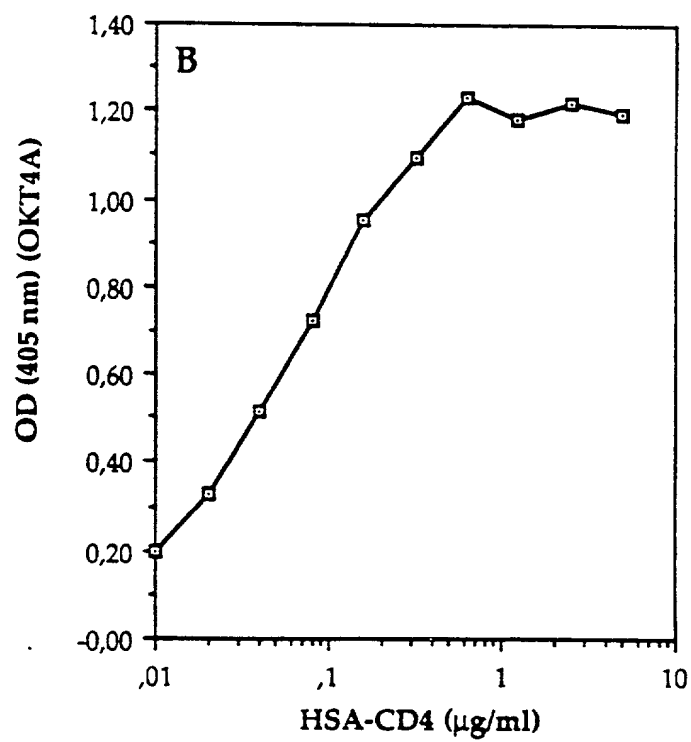
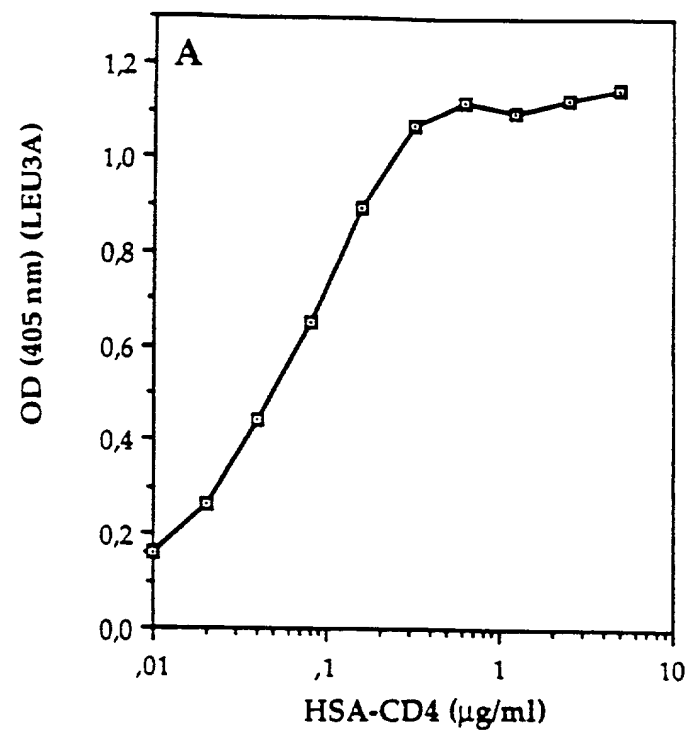


Figure 20

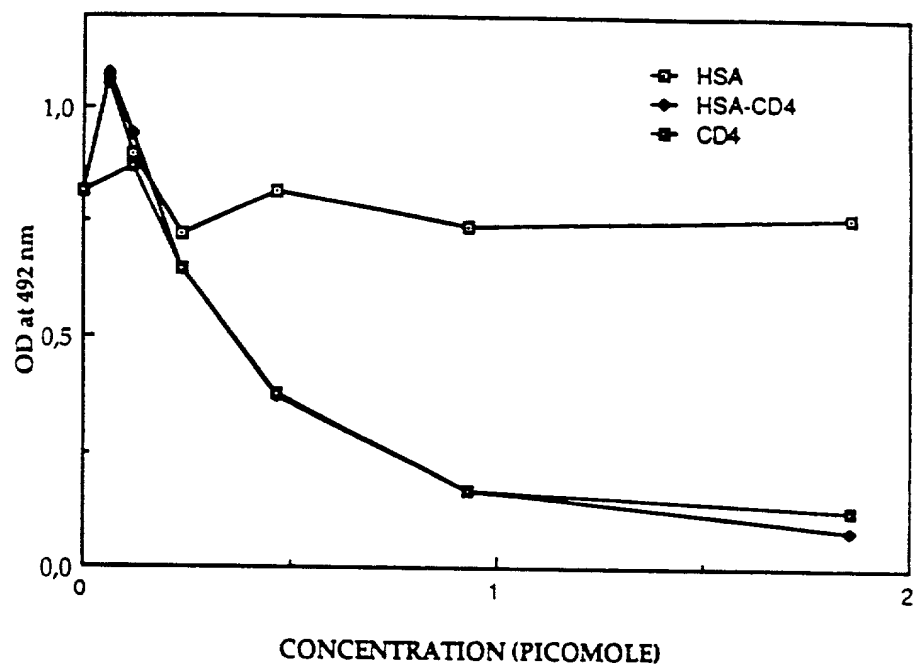


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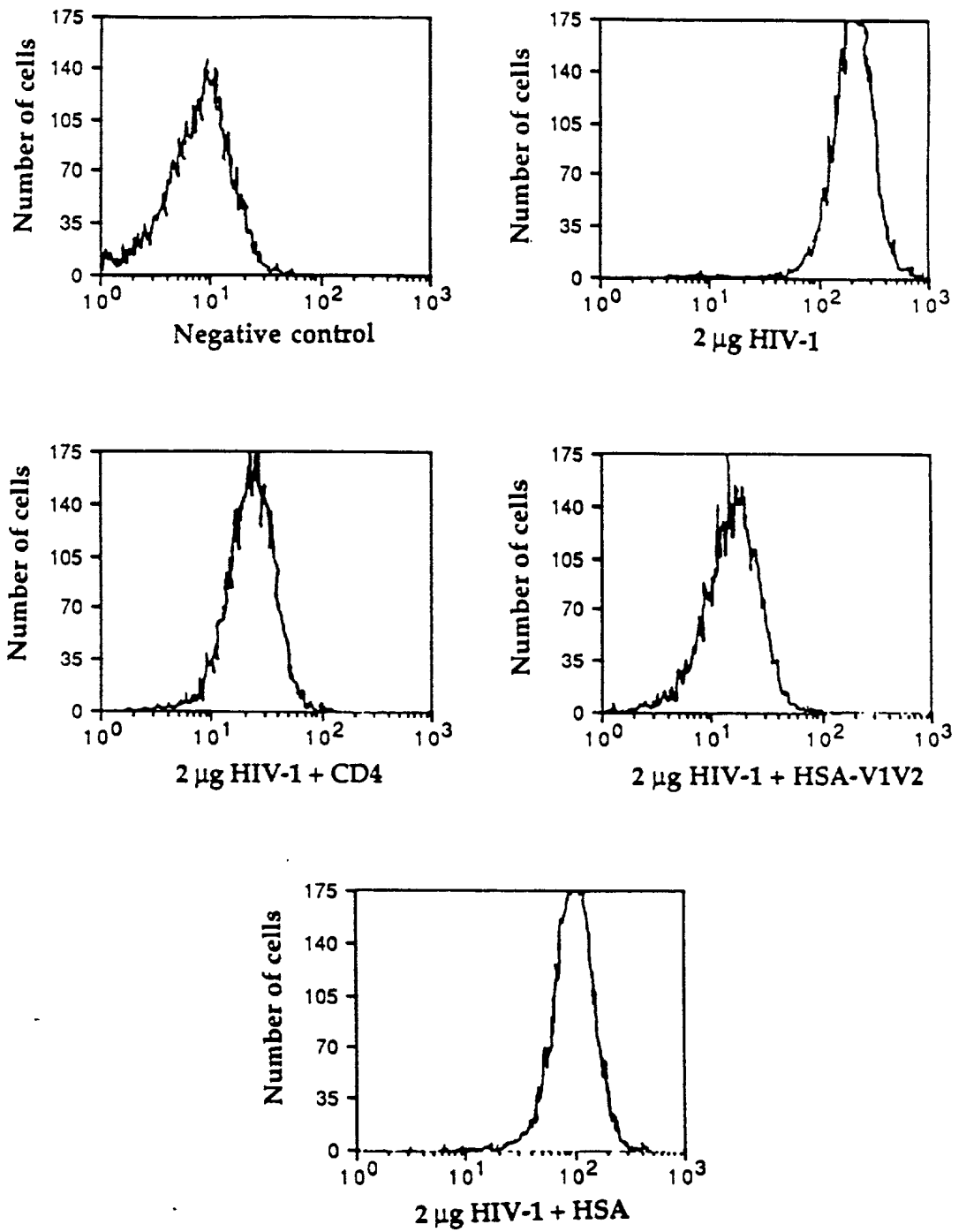


Figure 22A

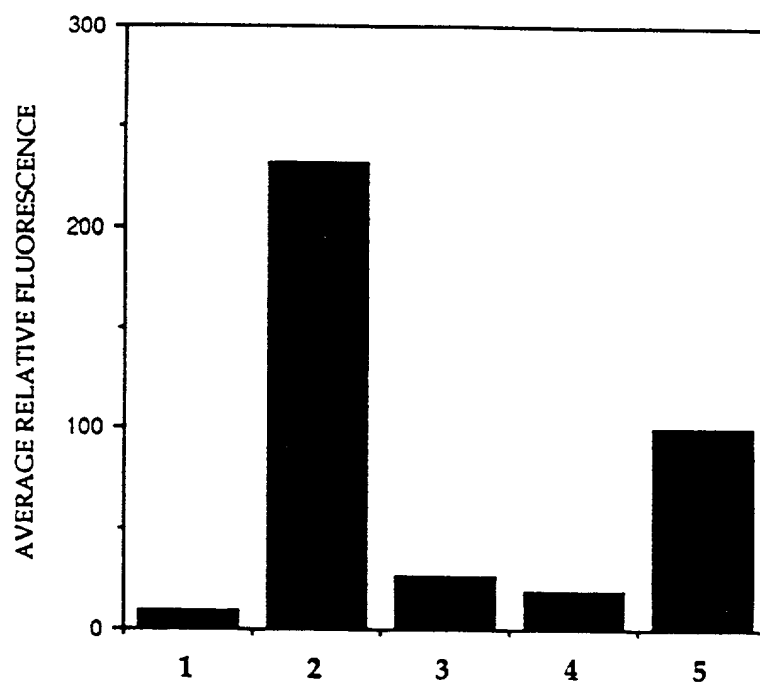


Figure 22B

INHIBITION OF INFECTION

concentrations in micrograms/ml

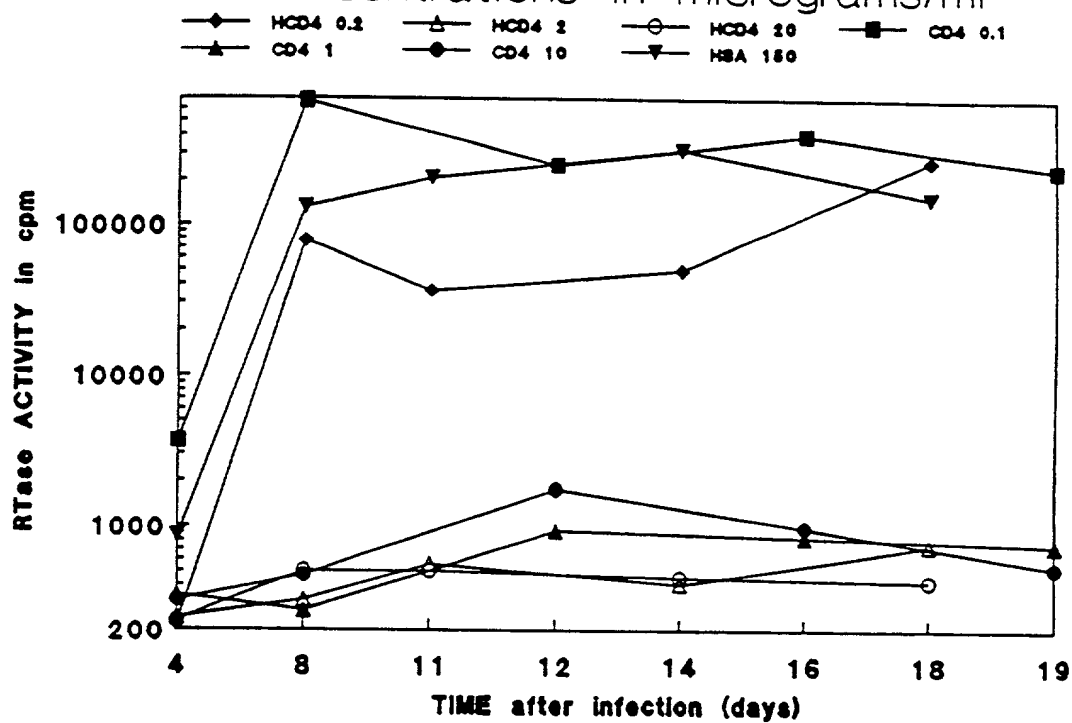


Figure 23

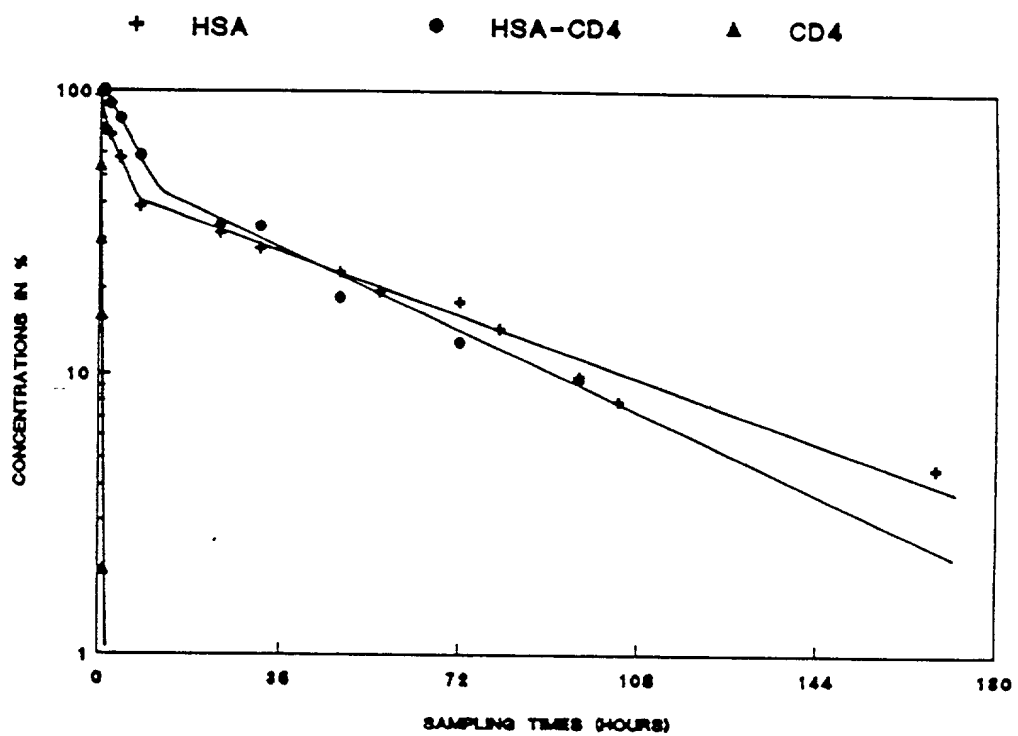


Figure 24

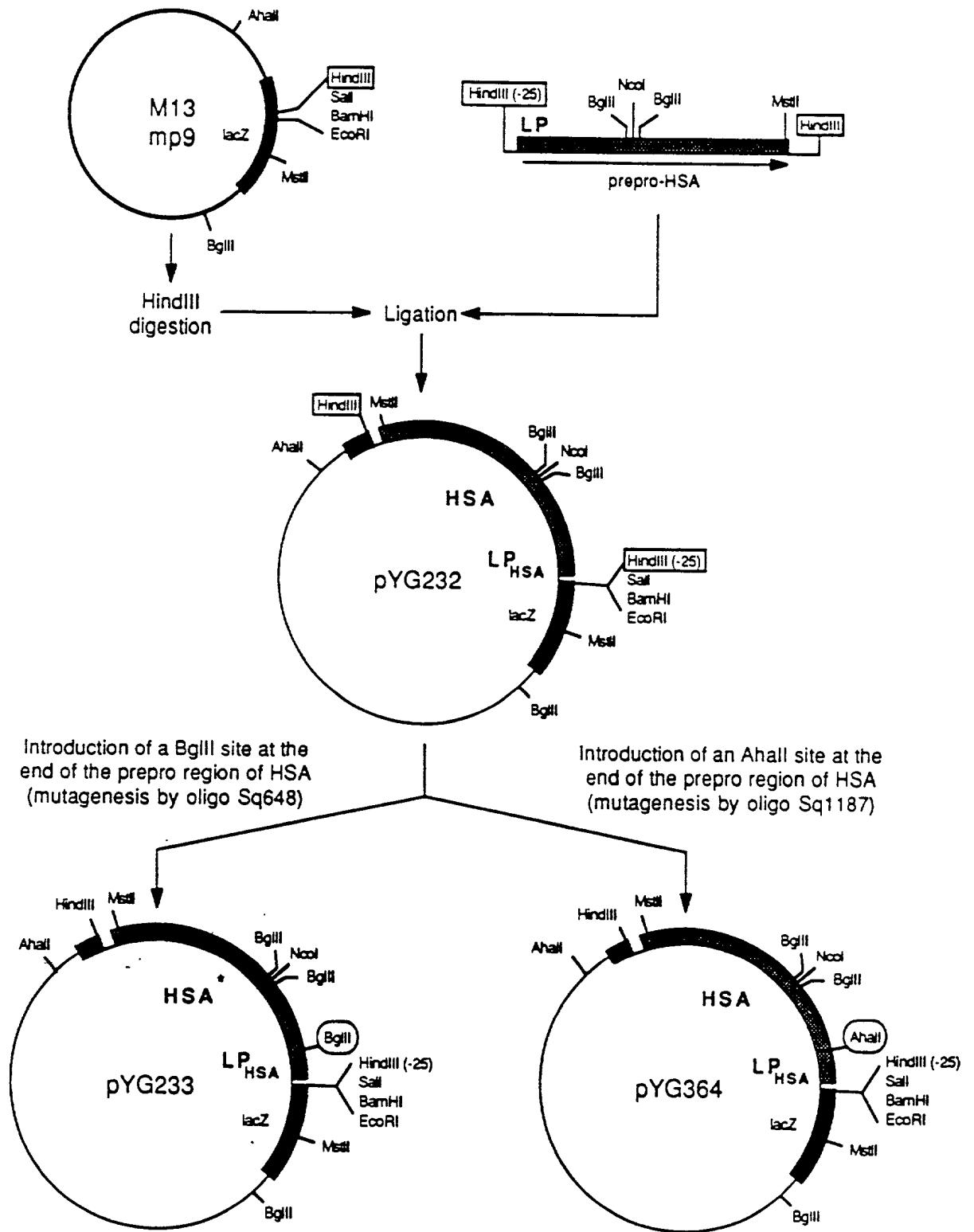


Figure 25

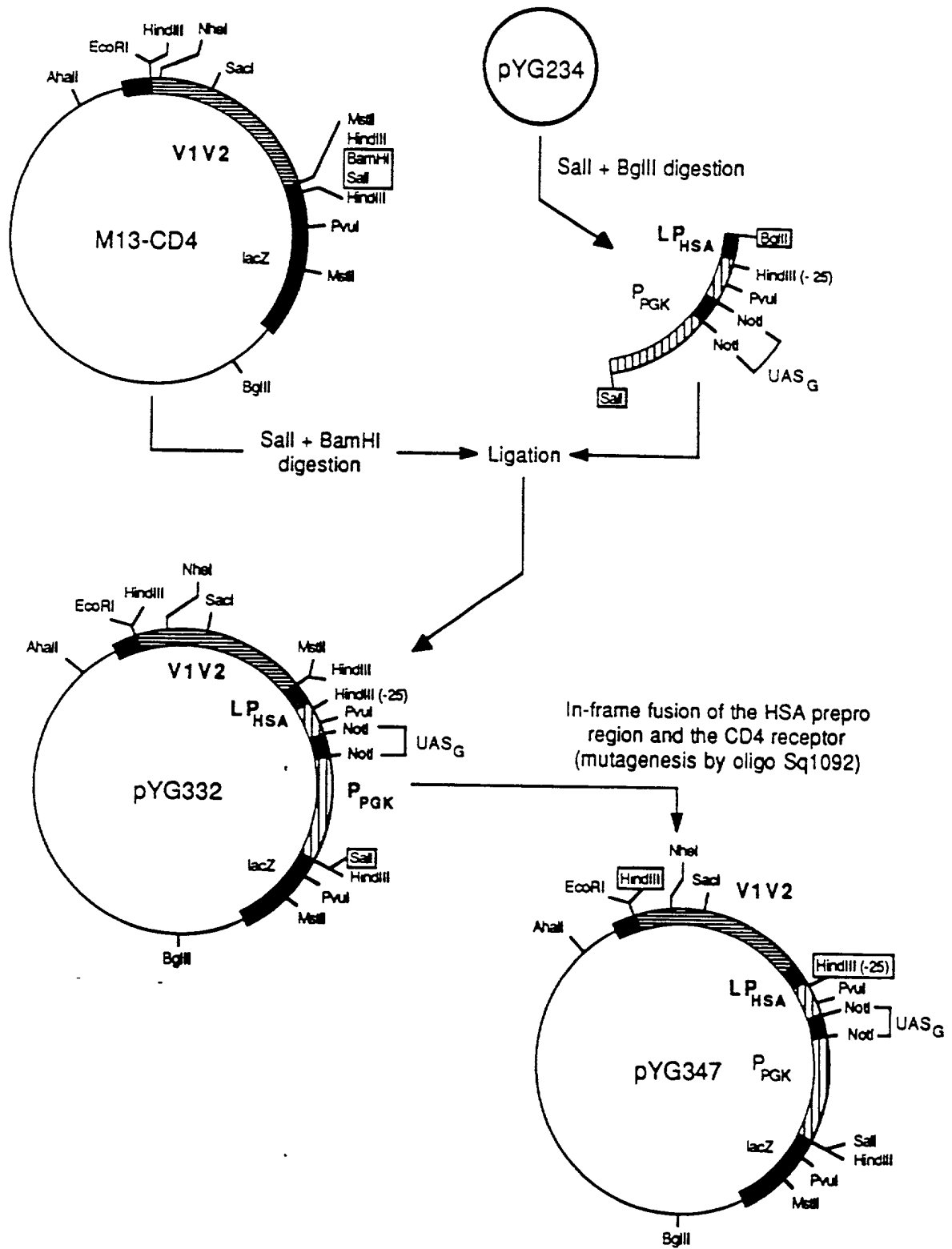


Figure 27

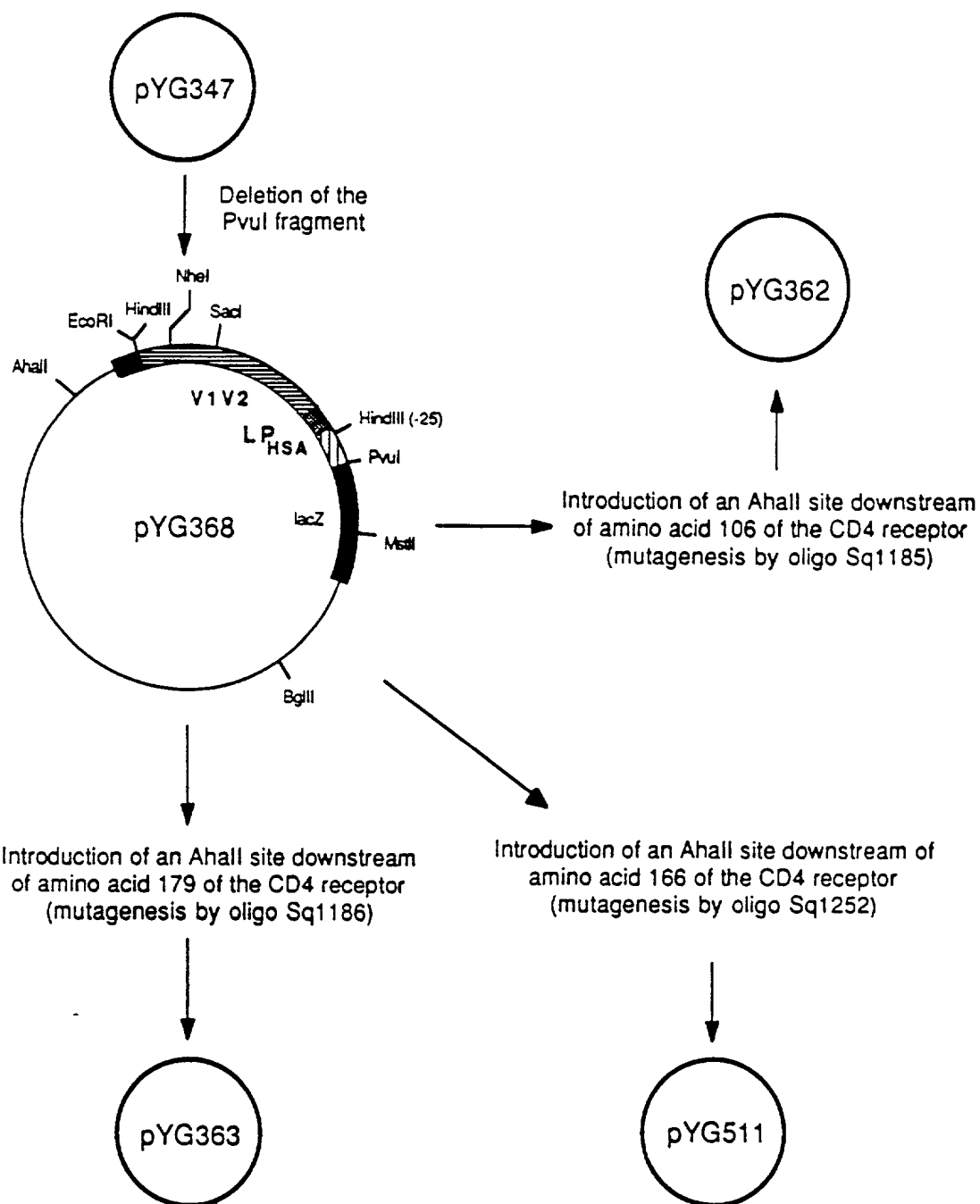


Figure 28

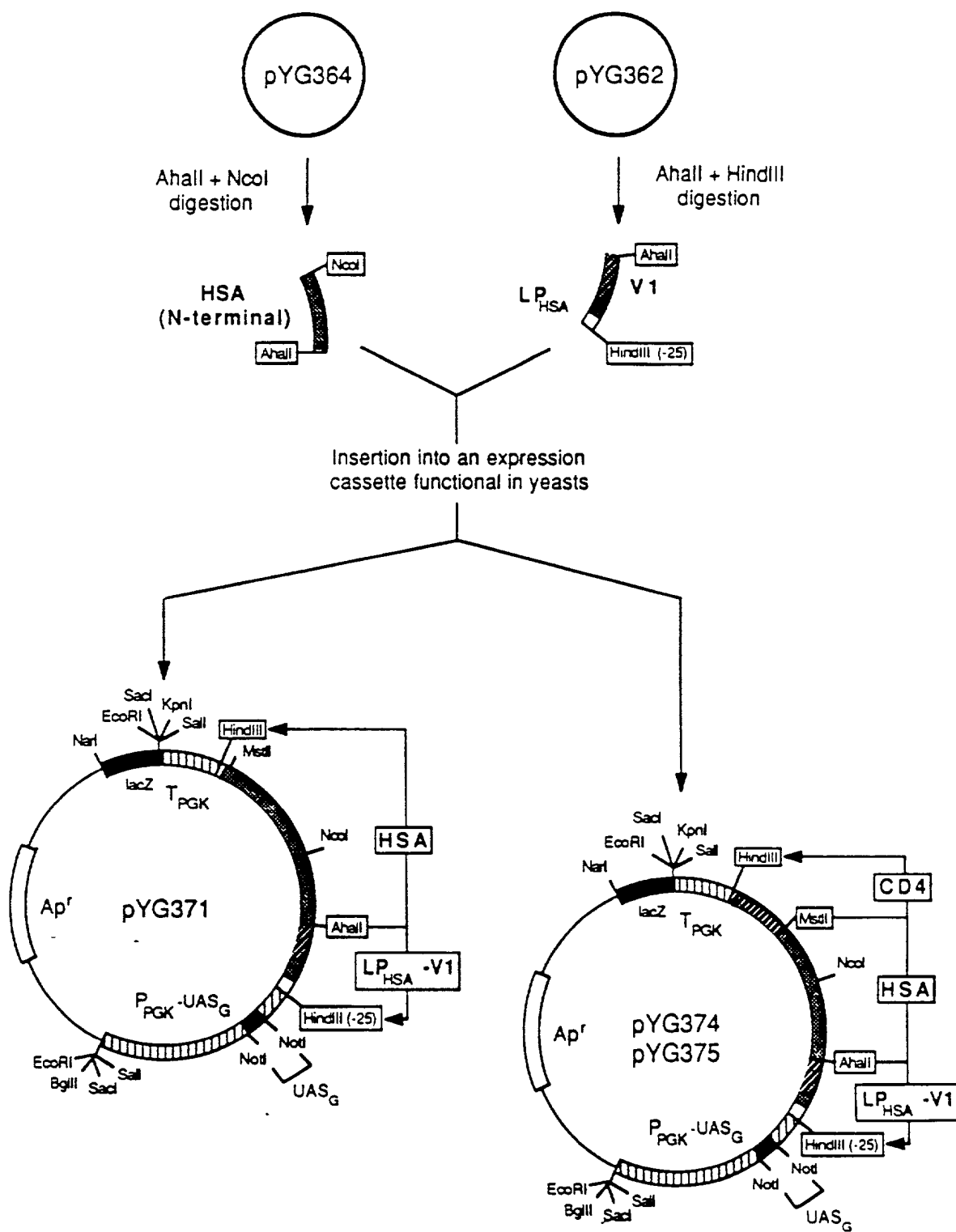


Figure 29

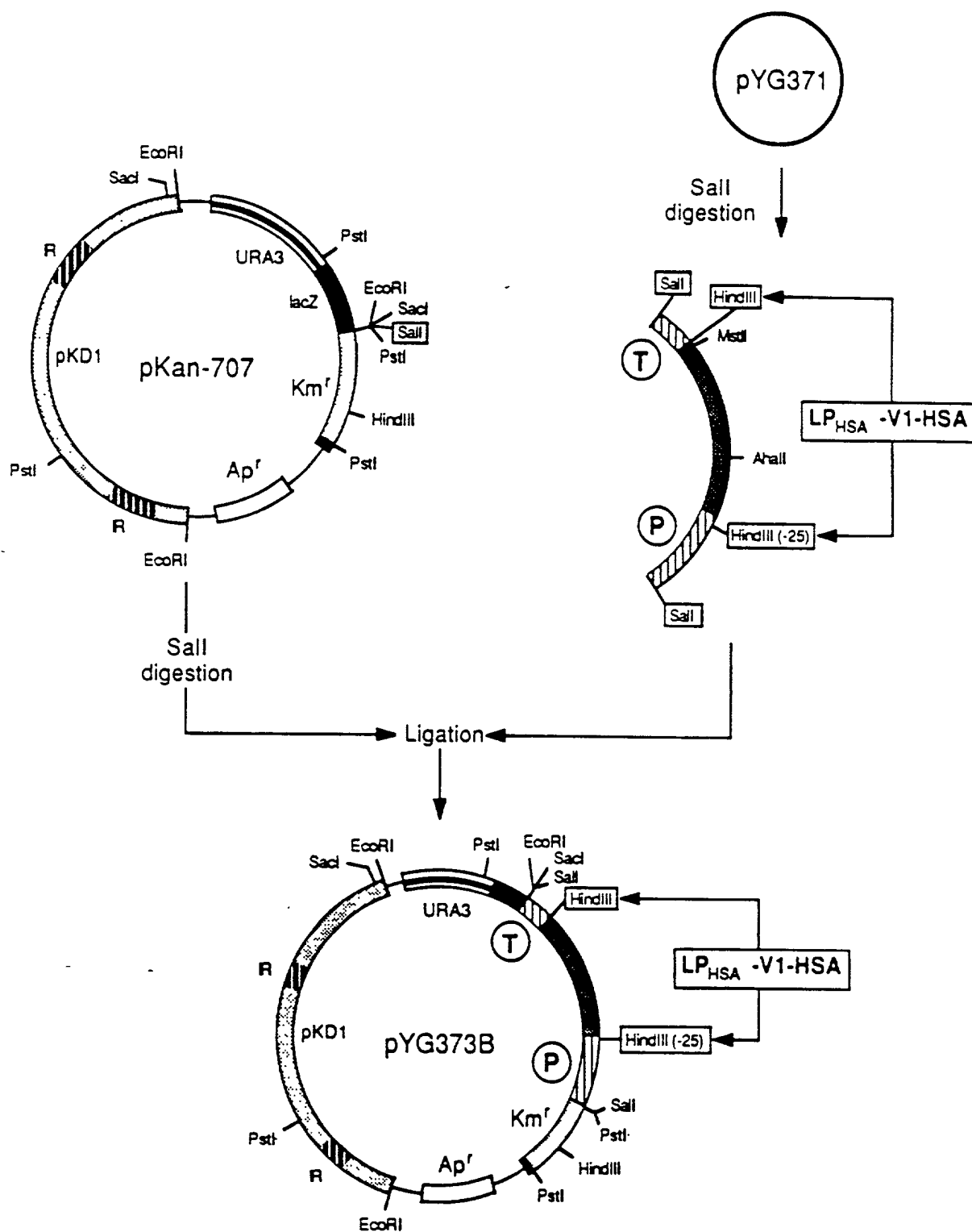


Figure 30

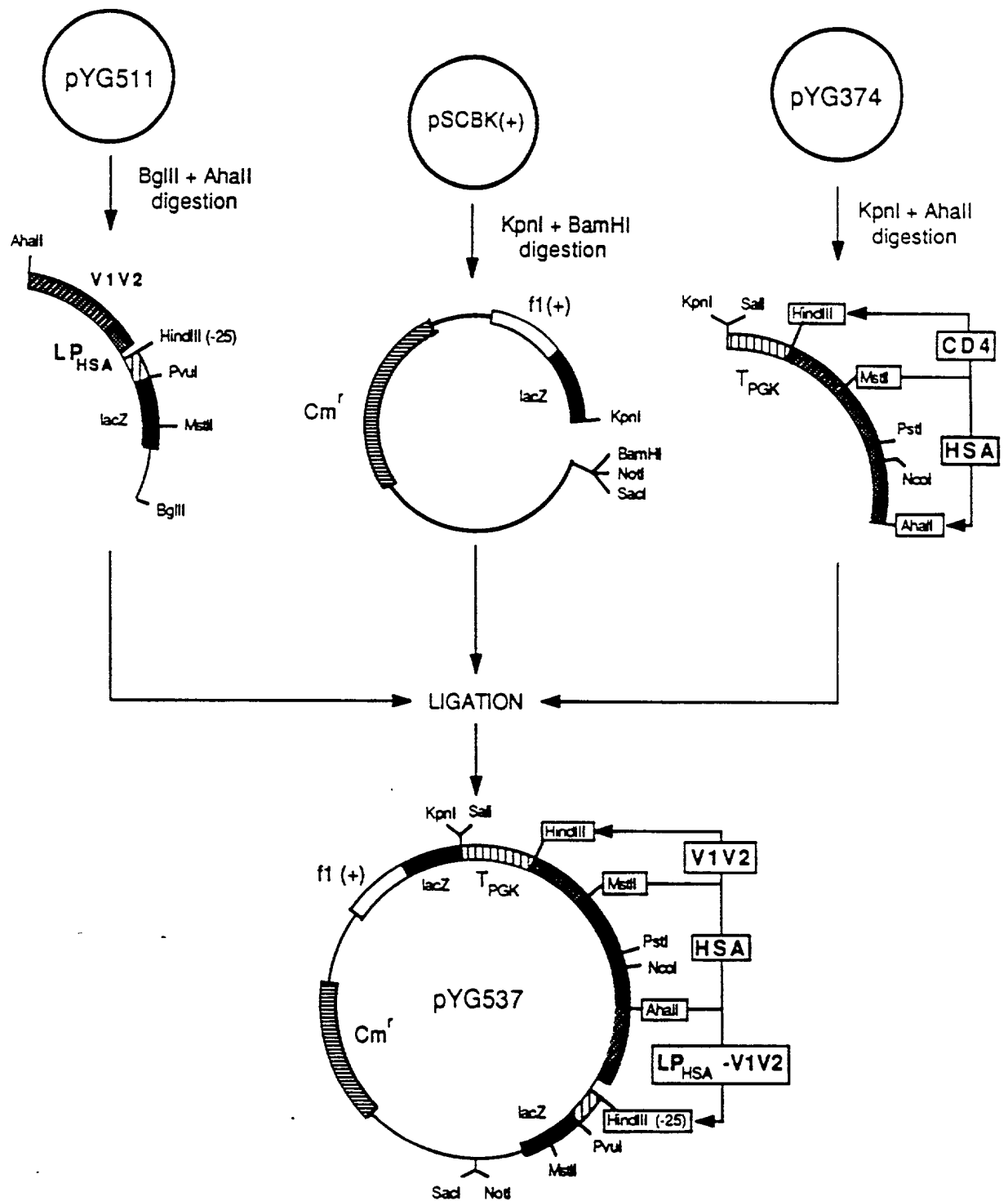


Figure 31

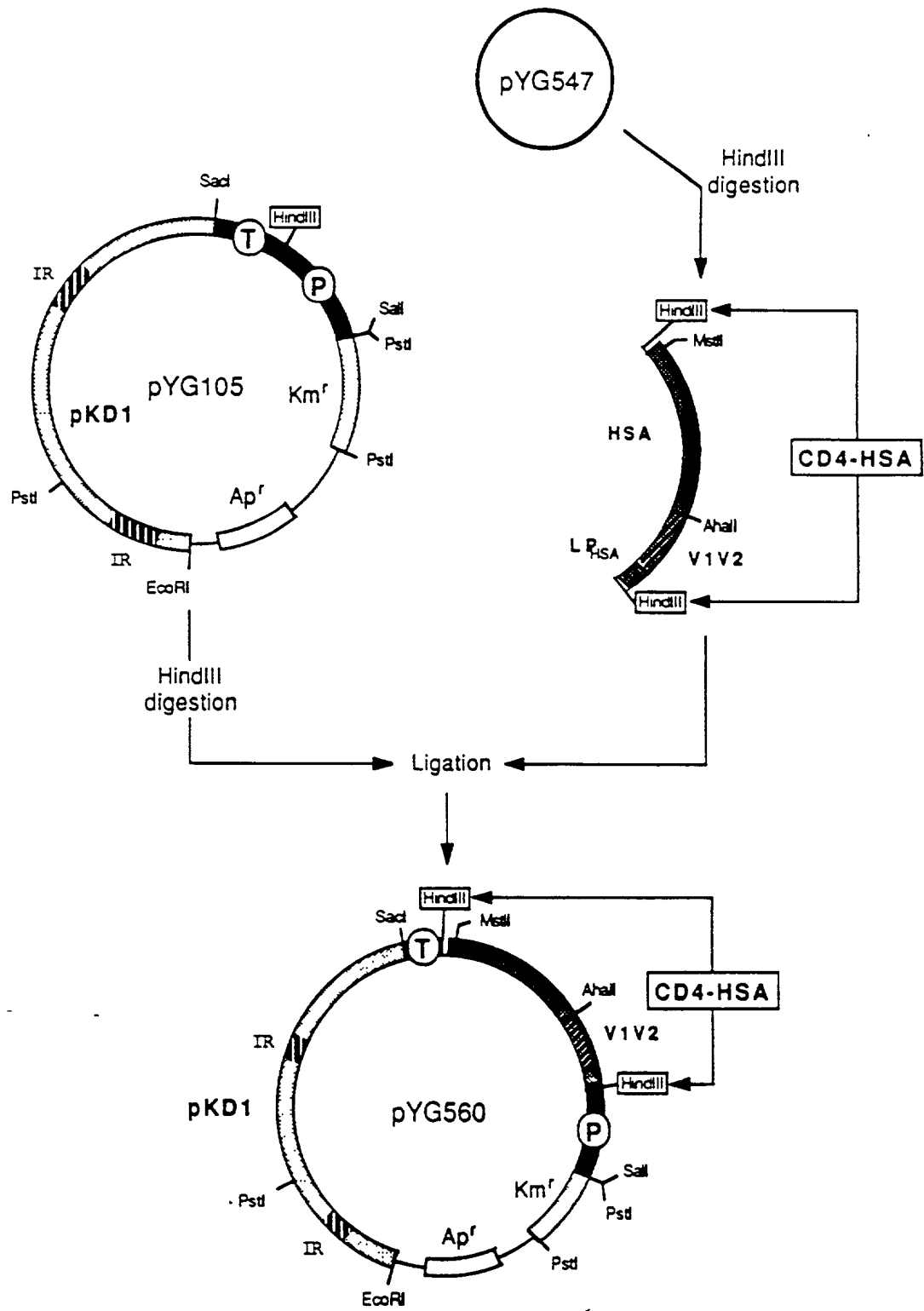


Figure 32

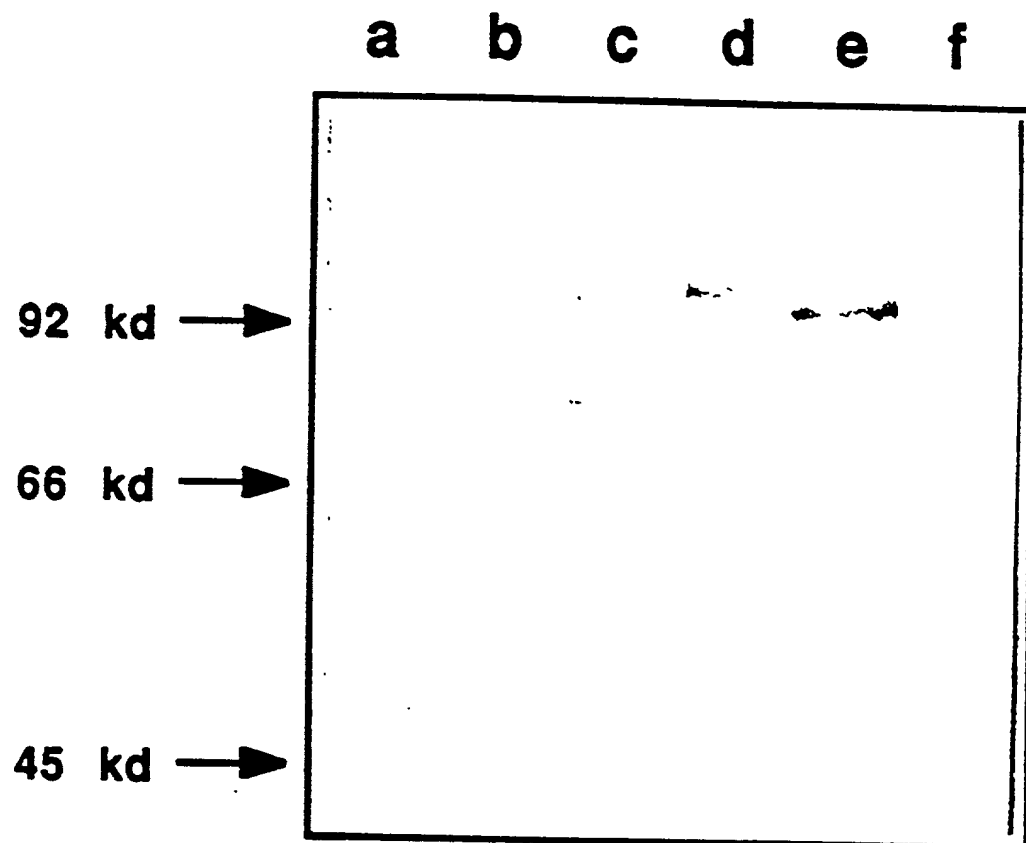
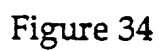


Figure 33



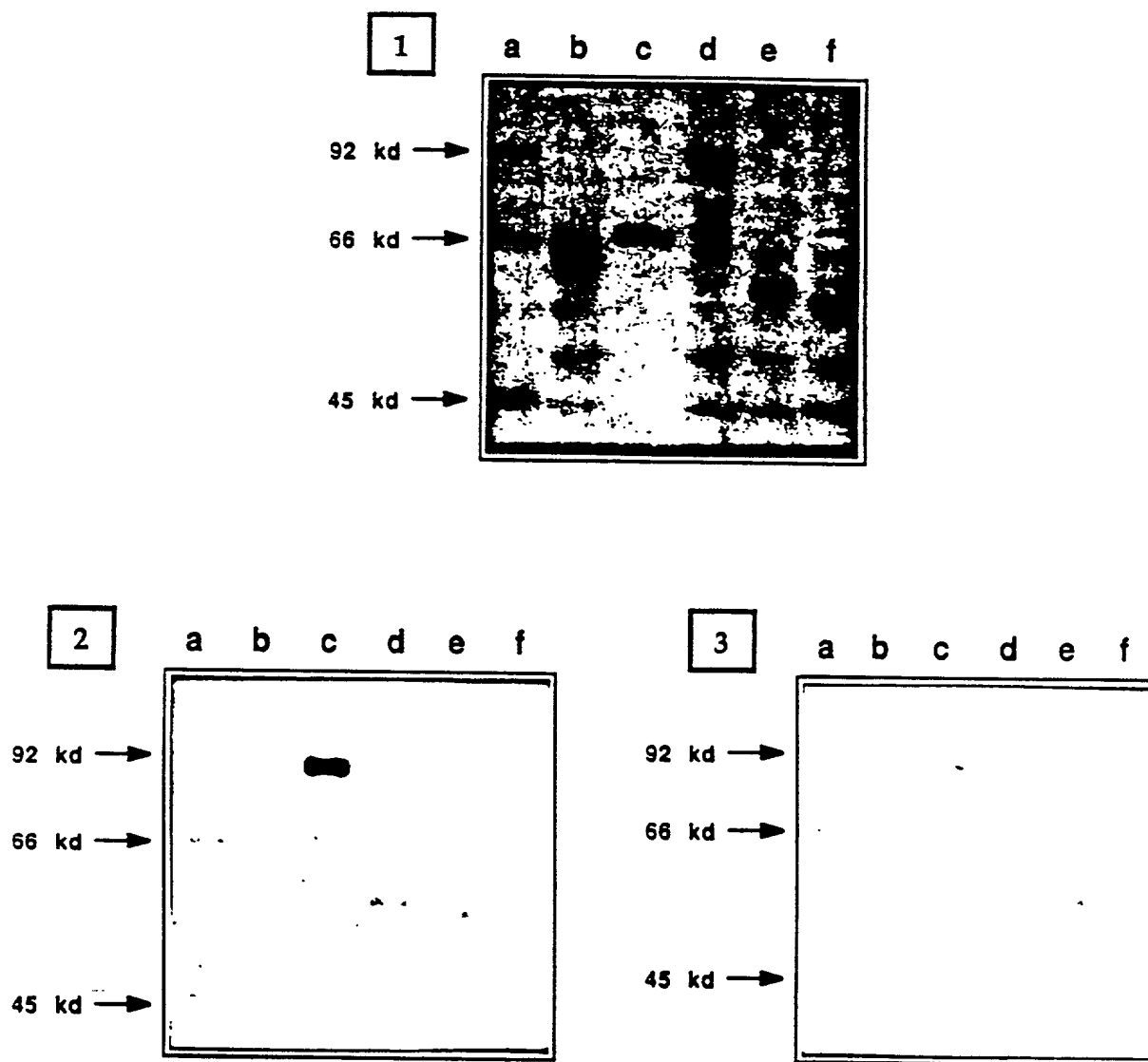


Figure 35

1007340-02400

[a]	HSA (585)
	YP39 (579)
	YP60 (578)
	YP61 (577)
	YP76 (568)
	YP82 (505)
	YP63 (495)
	YP27 (478)
	YP65 (459)
	YP78 (430)
	YP92 (404)
	YP40 (379)
	YP88 (351)
	YP90 (303)
	YP70 (292)
	YP62 (272)
	YP74 (254)
	YP51 (233)
	YP86 (201)

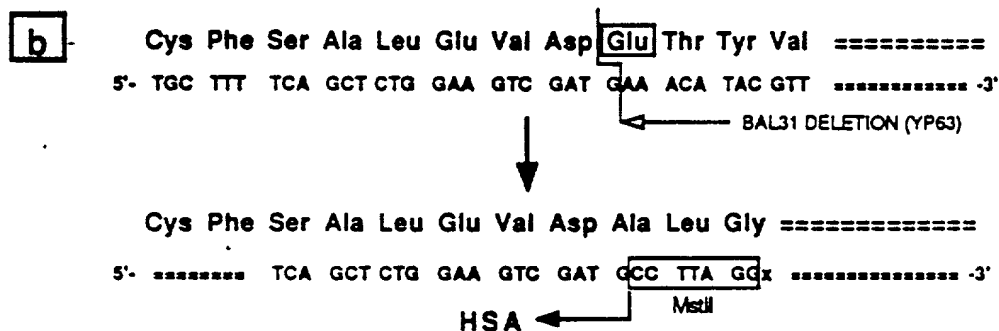


Figure 36

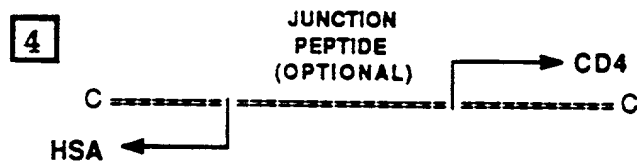
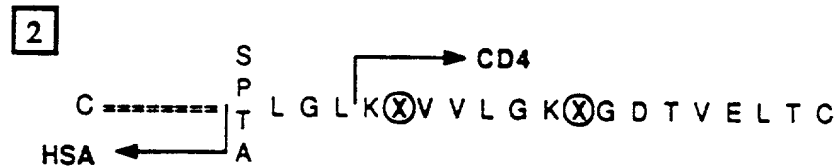
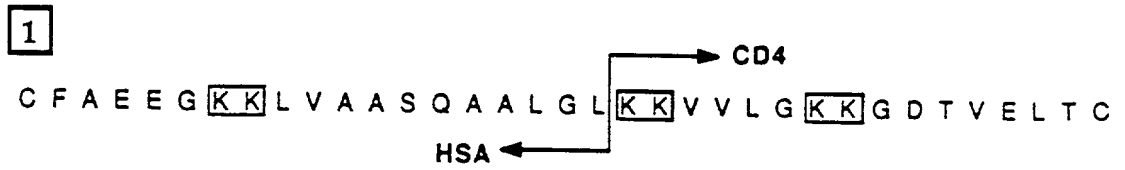


Figure 37

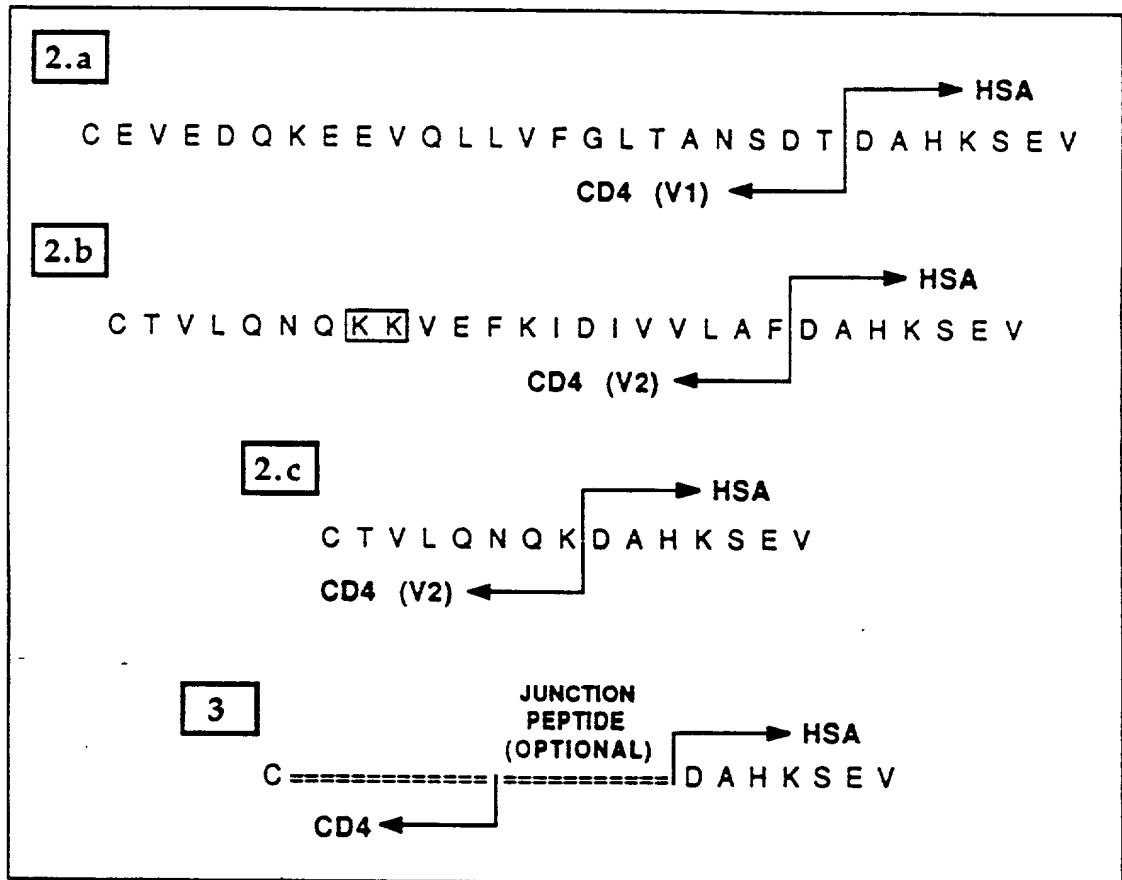
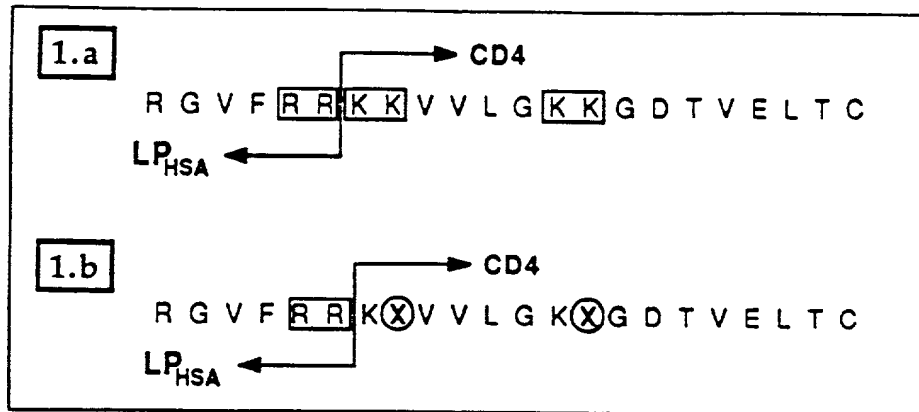


Figure 38